

## **Detailed study schedule with changes according to faculty council decisions as well as detailed information**

Status: 18.04.2024

### **Content:**

#### Study schedule - Semester 1 - 6

Study schedule - assignment of compulsory and elective modules of the profile recommendations in detail (semester 5 and 6)

- Profile recommendation General and Structural Mechanical Engineering (AKM)
- Profile recommendation Power Engineering (ET)
- Profile Recommendation Automotive and Railway Vehicle Engineering (KST)
- Profile recommendation Lightweight Engineering (LB)
- Profile recommendation Aerospace Engineering (LRT)
- Profile recommendation Production Engineering (PT)
- Profile recommendation Simulation Methods in Mechanical Engineering (SIM)
- Profile Recommendation Processing Machines and Textile Machines Engineering (VTMB)

#### Annex

#### Footnotes

## Curriculum

with the type and scope of the courses in SWS as well as required performances, the type, scope and design of which can be found in the module descriptions

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<b>Compulsory modules</b>								
<a href="#">MW-MB-01</a> <sup>24, 36</sup>	Fundamentals of Mathematics	4/2/0/1 PL						6
<a href="#">MW-MB-02</a> <sup>36</sup>	Engineering Mechanics - Statics	2/2/0/1 PL						5
<a href="#">MW-MB-03</a> <sup>9</sup>	Fundamentals of Natural Sciences  - Physics - Chemistry	2/1/0/1 2xPL (4)  2/1/0/1/1	2/1/0/0/1 PL (3)  2/1/0/0/1					7
<a href="#">MW-MB-04</a> <sup>9, 17, 24, 32, 42</sup>	Design Theory	2/2/0/0/1 (4)	2/2/0/1 PL (4)					8
<a href="#">MW-MB-05</a> <sup>17, 24, 32</sup>	Computer Science  - Computer application in MW - Software and programming technology	2/2/0/1 PL (4) 2/2/0/0/1	2/1/0/1 2xPL (4)  2/1/0/1/1					8

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<a href="#">MW-MB-06</a> <sup>47</sup>	Production Engineering	5/0/0/1 PL (5)	0/1/0/0/1 PL and Optional 2 SWS internship or professional internship (1 week) (4)					<b>9</b>
<a href="#">MW-MB-07</a>	Business Administration and Language Skills  - Language Skills - Business Administration	0/0/0/0/0 2 SWS SK PL (2) 2 SWS SK	2/1/0/0/1 PL (3)  2/1/0/0/1					<b>5</b>
<a href="#">MW-MB-08</a> <sup>4, 5, 7, 9, 36, 42</sup>	Engineering Mathematics		4/2/0/1 PL					<b>6</b>
<a href="#">MW-MB-09</a> <sup>24, 36, 54</sup>	Engineering Mechanics - Strength of Materials		2/2/0/0/1 (4)	2/1/0/0/1 PL (3)				<b>7</b>
<a href="#">MW-MB-10</a> <sup>4, 36, 54</sup>	Fundamentals of Material Science		2/0/0/1/1 (3)	2/0/0/1/1 2xPL (3)				<b>6</b>
<a href="#">MW-MB-11</a> <sup>9, 36</sup>	Fundamentals of Electrical Engineering			2/2/0/2/1 2xPL				<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<a href="#">MW-MB-12</a> <sup>4, 6, 9, 42, 54</sup>	Engineering Thermodynamics/Heat Transfer - Engineering Thermodynamics - Heat Transfer			2/2/0/1 PL (5) 2/2/0/0/1	2/2/0/1 PL (4)  2/2/0/0/1			<b>9</b>
<a href="#">MW-MB-13</a> <sup>4, 5, 36</sup>	Special Topics of Mathematics			2/2/0/0/1 (4)	2/2/0/1 PL (5)			<b>9</b>
<a href="#">MW-MB-14</a>	Machine Elements			3/2/0/1 PL (5)	3/2/0/1 2xPL (7)			<b>12</b>
<a href="#">MW-MB-15</a>	General and Engineering-Specific Qualifications in Mechanical Engineering			##/##/##/## <sup>1)</sup> PL (3)	##/##/##/## <sup>1)</sup> PL (2)			<b>5</b>
<a href="#">MW-MB-16</a> <sup>24, 36</sup>	Engineering Mechanics - Kinematics and Kinetics				3/2/0/1 PL			<b>6</b>
<a href="#">MW-MB-17</a> <sup>36, 42, 54</sup>	Fundamentals of Fluid Mechanics				2/2/0/1 PL			<b>5</b>
<a href="#">MW-MB-18</a> <sup>4, 9, 36</sup>	Measurement and Automation Engineering					2/1/0/1/0 PL (4)	2/1/0/1/0 2xPL (4)	<b>8</b>
<a href="#">MW-MB-19</a>	Extended Fundamentals for Mechanical Engineering					##/##/## PL <sup>2)</sup>		<b>5</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<b>Profile recommendation General and Structural Mechanical Engineering (AKM) <sup>3)</sup></b>								
<b>Compulsory modules</b>								
<a href="#">MW-MB-AKM-01</a> <sup>17, 23, 24, 32</sup> <a href="#">MW-MB-KST-28</a> <sup>17, 23, 24, 32</sup> <a href="#">MW-MB-VTMB-01</a> <sup>17, 23, 24, 32</sup>	Fundamentals of Construction and Dynamic Dimensioning of Machines - Constructive Development Process - Machine Dynamics					4/2/0/1/0 2xPL 2/0/0/1/0 2/2/0/0/0		<b>7</b>
<a href="#">MW-MB-AKM-02</a> <a href="#">MW-MB-KST-01</a>	Fluid Power and Electrical Drive Systems - Basics of fluid Power Drives and Controls - Electric Drives					4/2/0/0 PL  2/1/0/0/0 2/1/0/0/0		<b>7</b>
<a href="#">MW-MB-AKM-03</a>	Mechanical Drives - Drive Elements - Design Document Drive Assembly					2/3/0/0 2xPL 2/1/0/0/0 0/2/0/0/0		<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<b>Elective modules</b>								
Choice of 2 out of 4 modules								
<a href="#">MW-MB-AKM-05</a>	Intralogistics - Fundamentals - Elements and supporting Structures - Logistics Lab - Intralogistics Systems						3/1/0/2/0 2xPL 1/1/0/0/0 0/0/0/2/0 2/0/0/0/0	<b>7</b>
<a href="#">MW-MB-AKM-06</a>	Fundamentals of Agricultural Systems Technology - Basics of the Functioning of Machines - Tractor Technology - Agricultural Processes and Machinery						4/2/0/0 2xPL  0/2/0/0/0 2/0/0/0/0  2/0/0/0/0	<b>7</b>
<del><a href="#">MW-MB-AKM-09</a></del> <sup>17, 26</sup> <del><a href="#">MW-MB-KST-29</a></del> <sup>17, 26</sup>	<del>Tools and Methods of Product Development - Digital MockUp in Product Development - Designing with CAD</del>						<del>2/4/0/0 2xPL  1/2/0/0/0 1/2/0/0/0</del>	<del><b>7</b></del>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<del>MW-MB-AKM-12</del> <sup>20</sup>	<del>Three-Dimensional Design Fundamentals - Freehand Drawing - Plastic Design</del>						<del>2/0/0/4/0 PL  1/0/0/2/0 1/0/0/2/0</del>	<del>7</del>
MW-MB-AKM-32 <sup>20</sup>	Three-Dimensional Design Fundamentals in Industrial Design - Freehand drawing - Plastic design						2/0/0/4/0 PL  1/0/0/2/0 1/0/0/2/0	7
MW-MB-AKM-37 <sup>26, 32</sup> MW-MB-KST-32 <sup>26, 32</sup>	Methodical Product Development and Selected Tools - Digital MockUp in product development - Designing with CAD						2/4/0/0 2xPL  1/2/0/0/0 1/2/0/0/0	7

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<b>Profile recommendation Power Engineering (ET) <sup>3)</sup></b>								
<b>Compulsory modules</b>								
<a href="#">MW-MB-ET-01</a> <sup>1, 42</sup>	Fluid Mechanics and Simulation Methods - Simulation tools in power engineering - Flow simulation for engineering applications - Engineering fluid mechanics					4/2/0/1/0 PVL, PL  1/0/0/0/0  1/1/0/0/0 2/1/0/1/0		<b>7</b>
<a href="#">MW-MB-ET-02</a> <sup>1, 9, 54</sup>	Process Thermodynamics - Process Thermodynamics - Reaction Process Engineering					4/2/0/0 PL 2/1/0/0/0 2/1/0/0		<b>7</b>
<a href="#">MW-MB-ET-03</a> <sup>1, 42</sup>	Fundamentals of Heat and Mass Transfer - Combustion Technology - Heat and Mass Transfer					4/3/0/0 PL  2/1/0/0/0 2/2/0/0/0		<b>7</b>
<a href="#">MW-MB-ET-06</a> <sup>9, 17</sup>	Fundamentals of Non-Fossil Primary Energy Use - Renewable Energy Sources - Fundamentals of Nuclear Energy Technology						4/2/0/1/0 2xPL 2/1/0/0/0  2/1/0/1/0	<b>7</b>



Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<a href="#">MW-MB-ET-07</a>	Heat Exchanger, Pipings, Pressure Vessels and Energy Storage - Basics of Energy Storage Components - Pipelines, Apparatus and Containers - Heat Exchanger and Steam Generator						5/2/0/0 2xPL  1/0/0/0/0  2/1/0/0/0  2/1/0/0/0	<b>7</b>
<b>Profile Recommendation Automotive and Railway Vehicle Engineering (KST) <sup>3)</sup></b>								
<b>Elective modules</b>								
Choice of 3 out of 5 modules								
<a href="#">MW-MB-KST-01</a> <a href="#">MW-MB-AKM-02</a>	Fluid Power and Electrical Drive Systems - Basics of fluid pPower Drives and Controls - Electric Drives					4/2/0/0 PL  2/1/0/0/0 2/1/0/0/0		<b>7</b>
<a href="#">MW-MB-KST-02</a> <sup>24</sup>	Fundamentals of Automotive Engineering - Advanced Fundamentals Internal Combustion Engines - Automotive I - Components and Subsystems					3/2/0/1/0 PL  1/0/0/1/0  2/2/0/0/0		<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<a href="#">MW-MB-KST-03</a> <sup>52</sup>	Fundamentals of Internal Combustion Engines and Drive Systems - Drive Systems - Fundamentals of Combustion Engines - Design Document Drive Assembly					4/2/0/0 2xPL  2/0/0/0/0  2/0/0/0/0 0/2/0/0/0		<b>7</b>
<a href="#">MW-MB-KST-04</a>	Fundamentals of Rail Vehicles - Fundamentals of Rail Vehicle Technology - Basics of Traction Unit Technology					4/1/0/0 PL  2/1/0/0/0 2/0/0/0/0		<b>7</b>
<a href="#">MW-MB-KST-28</a> <sup>17, 23, 24</sup> <a href="#">MW-MB-AKM-01</a> <sup>17, 23, 24</sup> <a href="#">MW-MB-VTMB-01</a> <sup>17, 23, 24</sup>	Fundamentals of Construction and Dynamic Dimensioning of Machines - Constructive Development Process - Machine Dynamics					4/2/0/1/0 2xPL 2/0/0/1/0 2/2/0/0/0		<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
Choice of 2 out of 4 modules								
<a href="#">MW-MB-KST-06</a>	Connected Mechatronic Systems - Electronic Vehicle Systems and Automated Driving Functions - Laboratory Practical in Vehicle Electronics - Networked Systems and Vehicle Communication						4/0/0/1/0 PL  2/0/0/0/0  0/0/0/1/0/  2/0/0/0/0	<b>7</b>
<a href="#">MW-MB-KST-08</a> <sup>24</sup>	Full Vehicle Functions in Automotive Engineering - KFZ II - Complete Vehicle Functions - Laboratory Practical Automotive Engineering						2/0/0/4/0 2xPL 2/0/0/0/0  0/0/0/4/0	<b>7</b>
<a href="#">MW-MB-KST-09</a> <sup>60</sup>	Traction Mechanics - Driving Dynamics - Traction unit Configurations						4/1/0/1/0 PL 2/1/0/0/0 2/0/0/1/0	<b>7</b>
<a href="#">MW-MB-KST-09</a> <sup>58</sup> <b>(valid for the SoSe 2024)</b>	Traction Mechanics - Driving Dynamics Traction Unit Configurations						4/1/0/0/0 PL 2/1/0/0/0 2/0/0/0/0	<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
MW-MB-KST-32 <sup>26</sup> MW-MB-AKM-37 <sup>26</sup>	Methodical Product Development and Selected Tools - Digital MockUp in Product Development - Designing with CAD						2/4/0/0 2xPL  1/2/0/0/0  1/2/0/0/0	<b>7</b>
<b>Profile recommendation Lightweight Engineering (LB)<sup>3)</sup></b>								
<b>Compulsory modules</b>								
MW-MB-LB-01 <sup>36</sup>	Fundamentals of Lightweight Engineering - Basic Features of Lightweight Construction - Machine Dynamics					4/2/0/0 PL  2/1/0/0/0  2/1/0/0/0		<b>7</b>
MW-MB-LB-02	Lightweight Materials - Fundamentals of Polymer Materials - Plastics Testing - Non-ferrous Metals, Ceramics, Natural Materials					5/0/0/1/0 2xPL 2/0/0/0/0 1/0/0/1/0  2/0/0/0/0		<b>7</b>
MW-MB-LB-03 <sup>1, 39</sup>	Fiber-Reinforced Materials - Fiber Composites - Textile semi-finished Products and Process					4/1/0/1/0 PL 2/1/0/0/0  2/0/0/1/0		<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<a href="#">MW-MB-LB-04</a>	Calculation of Lightweight Structures - Calculation of Lightweight Structures 1 - Simulation Technology						3/1/0/2/0 PL  2/1/0/0/0 1/0/0/2/0	<b>7</b>
<a href="#">MW-MB-LB-06</a>	Fundamentals of Polymer Technology - Plastics Technology - Plastics Processing						4/2/0/0 PL  2/1/0/0/0 2/1/0/0/0	<b>7</b>
<b>Profile recommendation Aerospace Engineering (LRT) <sup>3)</sup></b>								
<b>Compulsory modules</b>								
<a href="#">MW-MB-LRT-01 <sup>9</sup></a>	Fundamentals of Aerodynamics and Flight Mechanics - Aerodynamics 1 - Fundamentals of Flight Mechanics					4/3/0/0 PL  2/2/0/0/0 2/1/0/0/0		<b>7</b>
<a href="#">MW-MB-LRT-02 <sup>17</sup></a>	Fundamentals of Aerospace Vehicles - Aircraft Design - Space Systems					4/3/0/0 PL 2/2/0/0/0 2/1/0/0/0		<b>7</b>
<a href="#">MW-MB-LRT-03</a>	Fundamentals of Aerospace Engineering - Aerospace Materials - Fluid Mechanics Fundamentals of Turbomachinery					4/2/0/0 PL  2/0/0/0/0  2/2/0/0/0		<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<a href="#">MW-MB-LRT-04</a>	Fundamentals of Flight Propulsion - Gas Dynamics - Aircraft Propulsion 1						4/2/0/0 PL 2/1/0/0/0 2/1/0/0/0	<b>7</b>
<a href="#">MW-MB-LRT-05</a>	Numerical Methods of Fluid Mechanics and Structural Mechanics - Finite Element Method - Computational Fluid Dynamics						4/1/0/2/0 PVL, PL 2/0/0/1/0 2/1/0/1/0	<b>7</b>
<b>Profile recommendation Production Engineering (PT) <sup>3)</sup></b>								
<b>Compulsory modules</b>								
<a href="#">MW-MB-PT-01 <sup>1</sup></a>	Production Engineering - Manufacturing Processes - Joining Technology - Surface and Coating Technology - Forming and Remoulding Technology - Cutting and Removal Technology					4/2/0/0 2xPL  1/0/0/0/0 1/0/0/0/0  1/1/0/0/0 1/1/0/0/0		<b>7</b>
<a href="#">MW-MB-PT-02 <sup>54</sup></a>	Production Engineering - Manufacturing and Planning - Occupational Science - Production Planning - Production and Logistics					4/1/0/0 PL  1/0/0/0/0 2/1/0/0/0 1/0/0/0/0		<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<a href="#">MW-MB-PT-03</a>	Production Engineering - Machine Tools and Production Automatization - Production Automation - Machine Tools - Basics					4/2/0/0 PL  2/1/0/0/0 2/1/0/0/0		<b>7</b>
<b>Elective modules</b>								
Choice of 2 out of 4 modules								
<a href="#">MW-MB-PT-04</a> <sup>47</sup>	Manufacturing Processes - Advanced Course - Welding Process - Forming Process Design						3/2/0/0 PL  2/1/0/0/0 1/1/0/0/0	<b>7</b>
<a href="#">MW-MB-PT-05</a> <sup>31, 46</sup>	Additive Manufacturing - Additive Manufacturing						4/2/0/0 2xPL 4/2/0/0/0	<b>7</b>
<a href="#">MW-MB-PT-06</a>	Development of Machine Tools - Building Group Design - Controlled Drives						4/2/0/1/0 PL 2/1/0/1/0 2/1/0/0/0	<b>7</b>
<a href="#">MW-MB-PT-07</a> <sup>8</sup>	Industrial Engineering <del>Work Organisation</del> - Ergonomics						4/2/0/0 2xPL 2/1/0/0/0 2/1/0/0/0	<b>7</b>
<a href="#">MW-MB-PT-32</a> <sup>8, 53</sup>	Industrial Engineering and Ergonomics <del>Work Organisation</del> <del>Ergonomics</del>						4/2/0/0 2xPL  2/1/0/0/0 2/1/0/0/0	<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<a href="#">MW-MB-PT-34</a> <sup>53</sup>	Ergonomics and Industrial Engineering - Work Organisation - Ergonomics						4/2/0/0 2xPL  2/1/0/0/0 2/1/0/0/0	<b>7</b>



Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<b>Profile recommendation Simulation Methods in Mechanical Engineering (SIM) <sup>3)</sup></b>								
<b>Compulsory modules</b>								
<a href="#">MW-MB-SIM-01</a> <sup>42</sup>	Numerical Methods and Structural Durability - Fatigue and Operational Strength - Numerical Methods - Practical course Numerical Methods/Fatigue and Operational Strength					4/2/0/1/0 2xPL 2/1/0/0/0 2/1/0/0/0  0/0/0/1/0		<b>7</b>
<a href="#">MW-MB-SIM-02</a>	Machine Dynamics and Constructive Development Process - Constructive Development Process - Machine Dynamics					4/1/0/2/0 2xPL 2/0/0/1/0 2/1/0/1/0		<b>7</b>
<a href="#">MW-MB-SIM-03</a>	Elastic Structures and Technical Fluid Mechanics - Elastic Structures - Engineering Fluid Mechanics					4/2/0/1/0 2xPL 2/1/0/0/0 2/1/0/1/0		<b>7</b>
<a href="#">MW-MB-SIM-04</a> <sup>42</sup>	Continuum Mechanics and Multifunctional Structures - Continuum Mechanics - Multifunctional Structures						4/2/0/0 2xPL  2/1/0/0/0 2/1/0/0/0	<b>7</b>
<a href="#">MW-MB-SIM-05</a>	Multi-Body Dynamics and Computational Fluid Dynamics - Multi-body dynamics - Computational fluid Dynamics						4/3/0/0 PL  2/2/0/0/0 2/1/0/0/0	<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<b>Profile Recommendation Processing Machines and Textile Machines Engineering (VTMB) <sup>3)</sup></b>								
<b>Compulsory modules</b>								
MW-MB-VTMB-01 <u>17, 23, 24</u> MW-MB-AKM-01 <sup>17, 23, 24</sup> MW-MB-KST-28 <sup>17, 23, 24</sup>	Fundamentals of Construction and Dynamic Dimensioning of Machines - Constructive Development Process - Machine Dynamics					4/2/0/1/0 2xPL 2/0/0/1/0 2/2/0/0/0		<b>7</b>
MW-MB-VTMB-02	Fundamentals of Systematic Product Development for Processing and Textile Machinery - Constructive Development Processing and textile Machines - Mechanism Technology					4/2/0/0 2xPL  2/1/0/0/0 2/1/0/0/0		<b>7</b>
MW-MB-VTMB-03 <sup>1</sup>	Fundamentals of Processing and Textile Mechanical Engineering - Fundamentals of Textile Mechanical Engineering - Basics of Processing Machine Construction					4/1/0/1/0 PL  2/0/0/1/0 2/1/0/0/0		<b>7</b>

Module no.	Module name	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester (M)	6 <sup>th</sup> Semester	LP
		V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	V*/Ü*/P/T	
<a href="#">MW-MB-VTMB-04</a> <sup>1</sup>	Machine Design and Diagnostics - Design and Construction of Machines - Dynamic Behaviour and Diagnosis of Machines						3/1/0/2/0 2xPL 2/1/0/0/0  1/0/0/2/0	<b>7</b>
<b>Elective modules</b>								
Selection of 1 out of 2 modules								
<a href="#">MW-MB-VTMB-07</a>	Machines and Technologies for High Performance, Functional and Biomedical Fibers - High Performance, Functional and Biomedical Fibres - Machines and Technologies of Fibre-forming Polymer Materials						4/1/0/2/0 PL  2/0/0/1/0  2/1/0/1/0	<b>7</b>
<a href="#">MW-MB-VTMB-08</a> <sup>46</sup>	Processing Machines - Basics of Processing Technology - Processing Machines Construction Document						2/2/0/0 2xPL 2/0/0/0/0  0/2/0/0/0	<b>7</b>
Bachelor thesis							11	<b>11</b>
Colloquium							1	<b>1</b>
<b>Credit points</b>		<b>30</b>	<b>31</b>	<b>30</b>	<b>29</b>	<b>30</b>	<b>30</b>	<b>180</b>

## Annex

V	Lecture <sup>*)</sup>
Ü	Exercise <sup>*)</sup>
P	Practical course
T	Tutorial
SK	Language course
PL	Exam performance(s)
PVL	Preliminary examination(s)
LP	Credit Points - in brackets ( ) pro rata allocation to individual semesters according to workload
M	Mobility window according to § 6 Paragraph 1 Sentence 3 Study Regulations
SWS	Lecture hours per week

<sup>\*)</sup> Pursuant to § 5 Paragraph 1 Sentence 3 Study Regulations, the teaching and learning forms of lecture and tutorial in the distance learning programme are each replaced by the teaching and learning form of consultation.

<sup>1)</sup> Alternatively, at the student's choice, courses totalling 4 SWS according to the catalogue General and Engineering-Specific Qualifications in Mechanical Engineering.

<sup>2)</sup> Alternatively, at the student's choice, courses with a total volume of 5 SWS including the examination performances specified according to the catalogue Advanced Fundamentals in Mechanical Engineering.

<sup>3)</sup> Alternatively, at the student's choice, one of eight profile recommendations and, taking into account § 24 Paragraph 2 Sentence 3, one of four profile recommendations.

<sup>1</sup> Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Mechanical Engineering of 17 May 2019 or Bachelor's Programme in Mechanical Engineering of 17 May 2019 in accordance with the resolution of the Faculty Council of 15.04.2020 Adjustment in the field Applicability.

<sup>4</sup> Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Process and Natural Materials Engineering of 29 April 2019, the Bachelor Programme in Process and Natural Materials Engineering of 28 April 2019 or Diploma Postgraduate Programme in Process and Natural Materials Engineering of 15 February 2020 in accordance with the resolution of the Faculty Council of 15 April 2020 Adjustment in the field Applicability.

<sup>5</sup> Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Materials Science of 29 April 2019 or Bachelor's Programme in Materials Science of 28 April 2019 in accordance with the resolution of the Faculty Council of 15.04.2020 Adjustment in the field Applicability.

<sup>6</sup> Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Process and Natural Materials Engineering of 29 April 2019, the Bachelor Programme in Process and Natural Materials Engineering of 28 April 2019 and the Diploma Postgraduate Programme in Process and Natural Materials Engineering of 15 February 2020 in accordance with the resolution of the Faculty Council of 17 March 2021 Adjustment in the field of usability.

- 7 Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Materials Science of 29 April 2019 or Bachelor's Programme in Materials Science of 28 April 2019 in accordance with the resolution of the Faculty Council of 21.04.2021 Adjustment in the field Applicability.
- 8 Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Mechanical Engineering of 17 May 2019 or Diploma Postgraduate Programme in Mechanical Engineering of 17 January 2020 in accordance with the resolution of the Faculty Council of 21.04.2021 Replacing the teaching offer.
- 9 Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Mechanical Engineering of 17 May 2019 or Bachelor's Programme in Mechanical Engineering of 17 May 2019 or Diploma Postgraduate Programme in Mechanical Engineering of 17 January 2020 in accordance with the resolution of the Faculty Council of 21.04.2021 Adjustment in the field Applicability.
- 13 Adjustment of the semester-based SWS allocation in summer semester 2021 due to the departure of the lecturer and pending replacement of the professorship.
- 17 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering of May 17, 2019 or Bachelor's degree programme in Mechanical Engineering of May 17, 2019 or Diploma-postgraduate degree programme in Mechanical Engineering of January 17, 2020 according to the resolution of the Faculty Council of 21.07.2021 Adjustment in the field responsible lecturer.
- 20 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering dated May 17, 2019 or Bachelor's degree programme in Mechanical Engineering dated May 17, 2019 or Diploma-postgraduate degree programme in Mechanical Engineering dated January 17, 2020 according to the resolution of the Faculty Council dated 20.10.2021 Replacement of the course offering.
- 23 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering dated May 17, 2019 or Bachelor's degree programme in Mechanical Engineering dated May 17, 2019 or Diploma-postgraduate degree programme in Mechanical Engineering dated January 17, 2020 according to the resolution of the Faculty Council dated 20.10.2021 Adjustment in the field Applicability.
- 24 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering dated May 17, 2019 or Bachelor's degree programme in Mechanical Engineering dated May 17, 2019 or Diploma-postgraduate degree programme in Mechanical Engineering dated January 17, 2020 according to the resolution of the Faculty Council dated 20.04.2022 Adjustment in the field Applicability.
- 26 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering of May 17, 2019 or Bachelor's degree programme in Mechanical Engineering of May 17, 2019 or Diploma-postgraduate degree programme in Mechanical Engineering of January 17, 2020 according to the resolution of the Faculty Council of 04/20/2022 Replacement of the course offerings.
- 31 Correction of the SWS distribution and merging of courses.
- 32 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering dated 17.05.2019 or Diploma-postgraduate degree programme in Mechanical Engineering dated 17.01.2020 according to the resolution of the Faculty Council dated 15.06.2022 Adjustment in the field responsible lecturer.

- 36 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering dated 17.05.2019 or Bachelor's degree programme in Mechanical Engineering dated 17.05.2019 or Diploma-postgraduate degree programme in Mechanical Engineering dated 17.01.2020 according to the resolution of the Faculty Council dated 19.10.2022 Adjustment in the field Usability.
- 39 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering of 17.05.2019 or Bachelor's degree programme in Mechanical Engineering of 17.05.2019 or Diploma-postgraduate degree programme in Mechanical Engineering of 17.01.2020 according to the resolution of the Faculty Council of 19.04.2023 Adjustment in the field responsible lecturer.
- 42 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering dated 17.05.2019 or Bachelor's degree programme in Mechanical Engineering dated 17.05.2019 or Diploma-postgraduate degree programme in Mechanical Engineering dated 17.01.2020 according to the resolution of the Faculty Council dated 19.04.2023 Adjustment in the field Usability.
- 46 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering of 17.05.2019 or Bachelor's degree programme in Mechanical Engineering of 17.05.2019 or Diploma-postgraduate degree programme in Mechanical Engineering of 17.01.2020 according to the resolution of the Faculty Council of 17.05.2023 Specify in the field requirements for the award of credit points according to the requirements of the accreditation process.
- 47 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering of 17.05.2019 or Bachelor's degree programme in Mechanical Engineering of 17.05.2019 or Diploma-postgraduate degree programme in Mechanical Engineering of 17.01.2020 according to the resolution of the Faculty Council of 17.05.2023 Adjustment in the field responsible lecturer.
- 52 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree program in Mechanical Engineering dated 17 May 2019 or Bachelor's degree program in Mechanical Engineering dated 17 May 2019 or Diploma postgraduate degree program in Mechanical Engineering dated 17 January 2020 in accordance with the resolution of the Faculty Council dated 15.11.2023 Specification in the field Requirements for the awarding of credit points in accordance with the requirements of the accreditation procedure.
- 53 Extension in accordance with § 6 para. 6 and § 10 para. 2 of the Study Regulations for the Diploma degree program in Mechanical Engineering of 17 May 2019 or the Bachelor's degree program in Mechanical Engineering of 17 May 2019 or the Diploma postgraduate degree program in Mechanical Engineering of 17 January 2020 in accordance with the resolution of the Faculty Council of 15 November 2023 Replacement of the course offerings.
- 54 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree program in Mechanical Engineering of 17 May 2019 or Bachelor's degree program in Mechanical Engineering of 17 May 2019 or Diploma postgraduate degree program in Mechanical Engineering of 17 January 2020 in accordance with the decision of the Faculty Council of 15 November 2023 Adaptation in the applicability field.
- 58 Adjustment of the semester-based SWS allocation in summer semester 2024 due to the departure of the lecturer and pending replacement of the professorship.
- 60 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Mechanical Engineering of 17.05.2019 or Bachelor's degree program in Mechanical Engineering dated 17 May 2019 or Diploma postgraduate degree program in Mechanical Engineering dated 17 January 2020 according to the resolution of the Faculty Council of 17 April 2024 Adjustment made in the Prerequisites for participation field and in the Teaching and learning forms field to add German and English as teaching languages due to the temporary replacement of the chair.