

## BSc Mechanical Engineering Curriculum

Code	Name of module	Credit Points	Page	Start*
<b>Semester 1</b>				<b>SoSe25</b>
MAT-1-E	Mathematics I	8	62	
TM-1-E	Engineering Mechanics I	4	20	
IBL-E	Industrial Management	3	36	
EPH-E	Experimental Physics	4.5	26	
MZCAD-E	Technical Drawing and CAD	6	80	
WSK-E	Material Science	3	60	
ELPJ-E	Introductory Lab/Learn Project	1	44	
<b>Semester 2</b>				<b>WS25/26</b>
MAT-2-E	Mathematics II	5	64	
TM-2-E	Engineering Mechanics II	5	22	
KONA-E	Machine Elements and Systems A	6	49	
WSK-E	Material Science	4	60	
KOR-E	Cost Accounting	3	10	
ELPJ-E	Introductory Lab/Learn Project	1	44	
EPH-E	Experimental Physics (Lab)	1.5	26	
FTT-E	Manufacturing Technology	4.5	57	
<b>Semester 3</b>				<b>SoSe26</b>
TM-3-E	Engineering Mechanics III	5	24	
KONB-E	Machine Elements and Systems B	6	51	
FTT-E	Manufacturing Technology (Lab)	1.5	57	
AINF-E	Applied Computer Science	6	5	
TTD1-E	Technical Thermodynamics I	5	83	
STL-1-E	Fluid Mechanics I	3	30	
GET-E	Electrical Engineering Fundamentals	4	16	
<b>Semester 4</b>				<b>WS26/27</b>
EAT-E	Electrical Drives	5	14	
IF-ALG-E	German Language	4	32	
<b>Semesters 5 &amp; 6</b>				<b>SoSe27</b>
MSR-E	Measurement and Control Systems	9	66	
BACPJ-E	Project Management Fundamentals / Bachelor Project	6	71	
<b>Compulsory electives (Semesters 4, 5 &amp; 6 - 1 of 2)</b>				<b>WS26/27</b>
SAB-E	Study research paper	6	77	
KONCH-E	Machine Elements and Design Project	6	55	
<b>Electives (Semesters 4, 5 &amp; 6 - 12 of 18) **</b>				<b>WS26/27</b>
ADDFT-E	Additive Manufacturing	5	3	
CPPA-E	Cyber Physical Production Systems	5	12	
ENNR-E	Energy from Biomass	5	18	
FEM-E	Finite Element Methods	5	28	

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<b>Electives (Semesters 4, 5 &amp; 6 - 12 of 18) ** - contd.</b>				<b>WS26/27</b>
KK1-E	Introduction to Car Body Design	5	38	
FWF-E	Introduction to Vehicle Dynamics	5	42	
FUEGET-E	Joining Technology	5	47	
KONC-E	Machine Elements and Systems C	5	53	
MTR-E	Mechatronics	5	67	
PPS-E	Production Planning and Control	5	69	
RBF-E	Robot-based Manufacturing	5	73	
SOM-E	Software Applications in Mechanical Engineering	5	75	
MPE-E	Systematic Product Development	5	78	
TTD2-E	Technical Thermodynamics II	5	85	
TET-E	Technology and Ethics	5	89	
TSM-E	Thermal Modelling of Real Systems	5	91	
WEA-E	Wind Turbines	5	93	
<b>Semester 7</b>				<b>SoSe28</b>
BPP-E	Industrial Internship	15	34	
BACAP-E	Bachelor Thesis with Colloquium	15	7	

\* This English-language Bachelor's programme starts in summer semester 2025. Each semester new classes will be added until summer semester 2028, when the seven-semester programme will be completely introduced.

**Information for exchange students:**

If you are coming for the summer semester, you can only take classes listed for semesters 1, 3 and 5.

If you are coming in the winter semester, you can only take classes listed for semesters 2, 4 and 6.

\*\* Electives will be offered in both semesters but not every elective every semester. Students should consult the Student Exchange Coordinator for a list of electives for their chosen semester: [ti-international@haw-hamburg.de](mailto:ti-international@haw-hamburg.de) **Electives can be subject to change.**

**SoSe: summer semester (April-July)**

**WS: winter semester (October - February)**

Status: BSc Mechanical Engineering (English) module handbook 01.10.2024. Page numbers refer to the page in the module handbook, where the course description, etc. can be found.