MECHANICAL ENGINEERING | MM
VERTIEFUNGSRICHTUNG: DESIGN AND SYSTEMS ENGINEERING

SEMESTER			ECTS	SWS
1	●	Selected Topics of Finite Element Methods	5	4
	●	Selected Topics in Engineering Mathematics	5	4
	●	Materials Science	5	4
	●	Advanced Product Development	5	4
	●	Management and Leadership	5	4
	●	Computer-Aided Techniques in Design	5	4
	●	Wahlpflichtmodule Katalog 1 / Advanced Material Testing	5	4
2	●	Seminar I: Current Research Topics	5	2
	●	Product Development in Production	5	4
	●	Simulation and Control	5	4
	●	Wahlpflichtmodule Katalog 1	5	
	●	Wahlpflichtmodule Katalog 1	5	
	●	Wahlpflichtmodule Katalog 2	5	
3	●	Seminar II: Guide to Scientific Work	5	2
	●	Abschlussarbeit	22	
	●	Abschlusskolloquium	3	

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● Wahlpflichtmodule Katalog 1

- Advanced Material Testing
- Current Topics in Mechanical Engineering
- Toolbox for Fluid Mechanical Design
- Prototyping and Virtual Reality
- Selected Topics in Mechatronics
- Mechanics of Solids
- Composite Materials
- Surface Engineering and Tribology
- Polymer Science
- Simulation and Control
- Biomechanics and Biophysics
- Medical Technology
- Data Science for Predictive Maintenance
- Mobile Mechatronic Systems

● Wahlpflichtmodule Katalog 2

- Ethics
- Product and Business Plan
- Planning of Technological Investments and Simulation

Die Kurse werden alternierend entweder im Sommer- oder Wintersemester angeboten

MECHANICAL ENGINEERING | MM
VERTIEFUNGSRICHTUNG: MATERIALS SCIENCE AND ENGINEERING

SEMESTER			ECTS	SWS
1	●	Selected Topics of Finite Element Methods	5	4
	●	Selected Topics in Engineering Mathematics	5	4
	●	Materials Science	5	4
	●	Advanced Product Development	5	4
	●	Management and Leadership	5	4
	●	Advanced Material Testing	5	4
	●	Wahlpflichtmodule Katalog 1 / Computer-Aided Techniques in Design	5	4
2	●	Seminar I: Current Research Topics	5	2
	●	Product Development in Production	5	4
	●	Polymer Science	5	4
	●	Wahlpflichtmodule Katalog 1	5	
	●	Wahlpflichtmodule Katalog 1	5	
	●	Wahlpflichtmodule Katalog 2	5	
3	●	Seminar II: Guide to Scientific Work	5	2
	●	Abschlussarbeit	22	
	●	Abschlusskolloquium	3	

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● Wahlpflichtmodule Katalog 1

- Current Topics in Mechanical Engineering
- Composite Materials
- Surface Engineering and Tribology
- Toolbox for Fluid Mechanical Design
- Prototyping and Virtual Reality
- Selected Topics in Mechatronics
- Mechanics of Solids
- Computer Aided Techniques in Design
- Simulation and Control
- Biomechanics and Biophysics
- Medical Technology
- Data Science for Predictive Maintenance
- Mobile Mechatronic Systems

● Wahlpflichtmodule Katalog 2

- Ethics
- Product and Business Plan
- Planning of Technological Investments and Simulation

Die Kurse werden alternierend entweder im Sommer- oder Wintersemester angeboten

● Pflichtmodule ● Vertiefungsmodul ● Wahlpflichtmodul ● Abschlussarbeit ECTS: European Credit Transfer System | SWS: Semesterwochenstunden. Mehr im Internet unter **www.th-luebeck.de/MM**