

Curriculum des Bachelor "Sustainable Engineering of Products and Processes" - English track

This model curriculum is meant for all students who would like to take as many courses as possible in English during their first two semesters. In particular, "Fascination Mechanical Engineering" is offered in English during the summer term and should therefore be taken in the second semester.

Semester 1		Semester 2		Semester 3		Semester 4		Semester 5		Semester 6	
Modul	LP	Modul	LP	Modul	LP	Modul	LP	Modul	LP	Modul	LP
Mathematics for Engineers A (Ingenieurmathematik A)	8	Mathematics for Engineers B (Ingenieurmathematik B)	8	Thermodynamik 1 (Thermodynamics 1)	5	Grundlagen des Konstruierens (Fundamentals of Engineering Design)	8	Pflicht/Wahlpflicht VT	5	Collaborative Work - Labor (Laboratory)	2
Engineering Mechanics 1 (Technische Mechanik 1)	8	Engineering Mechanics 2 (Technische Mechanik 2)	5	Strömungsmechanik (Fluid Mechanics)	5	Regelungstechnik (Control Theory)	5	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5
Materials Science (Werkstoffwissenschaften)	6	Fascination Mechanical Engineering (Faszination Maschinenbau)	5	Digitale Werkzeuge (Digital Tools) - Einführung in die Programmierung	2	Digitale Werkzeuge (Digital Tools) - Methoden und Algorithmen	3	Pflicht/Wahlpflicht VT	5	Praktikum (internship)	10
Environmental and Social Sustainability in Engineering - Teil 1	3	Environmental and Social Sustainability in Engineering - Teil 2	3	Energy Systems	5	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5	Abschlussmodul (bachelor's thesis)	14
Integrated Module (Überfachliche Profilbildung)	4	Sustainable Business Economics - Production Systems and Supply Chains	3	Pflicht/Wahlpflicht VT (compulsory/elective modules specialisation)	5	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5		
		Sustainable Business Economics - Entrepreneurship and Business Model Generation	3	Pflicht/Wahlpflicht VT	5	Pflicht/Wahlpflicht VT	5	Collaborative Work - Projektarbeit (project work)	6		
		Integrated Module (Überfachliche Profilbildung)	4								
29		31		27		31		31		31	

Summe 6 Semester: 180

Fundamentals of Mathematical Science and Information Technology	31 LP
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Engineering Applications	14 LP
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Sustainability	17 LP
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Fundamentals of Engineering	23 LP
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Specialisation Area	63 LP
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Integrated Module	8 LP
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