MASCHINENBAU
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Legende		
	Wahlpflichtbereich Ia :	Grundlagen
	Wahlpflichtbereich Ib :	Digitalisierung
	Wahlpflichtbereich II :	Kernlehrveranstaltungen
	Wahlpflichtbereich III :	Wahlfächer aus Natur- und Ingenieurwissenschaft
Abweichende Uhrzeiten stehen extra bei der betroffenen Veranstaltungen in der Tabelle		

Wintersemester 2024/2025			
Standort:		Veranstaltung:	
S	Stadmitte	vl	Vorlesung
L	Lichtwiese	ue	Übung
B	Botanischer Garten	hü	Hörsaalübung

Blockveranstaltungen:					
Nachhaltigkeit und Zirkularität von Automobilen			Management of Engineering Design		
Do, 23 Okt. Fr, 24. Okt.	8:15 - 17:00	L2|06-100/101	Fr, 31. Okt. Fr, 4. Nov. Fr, 28. Nov.	9:00 - 17:30	L1|10 - 113

Montag

Zeit								
8:00 - 8:45								
8:55 - 9:40				Future Air Transportation Systems L1|01-24K vl				
9:50 - 10:35	Advanced Fluid Mechanics I L1|01-328K vl	Einführung in die chemische Verfahrenstechnik mit Programmieraufgaben L2|02-A6 ue	Energieversorgung und Umweltschutz Digitale Lehre vl					
10:45 - 11:30		Theory of Elastic Stability L1|01-24K ue		Machining Technology - Basics and Application L1|01-73 vl	Grundlagen der Papiertechnik S3|20-5 vl			
11:40 - 12:25	Virtuelle Produktenwicklung A L4|02-201 vl							
12:35 - 13:20		Oberlächentechnik I 13:00 - 15:10 S2|07-109 vl						
13:30 - 14:15	Fahrdynamik und Fahrkomfort L3|01-A91 vl		Nano- und Mikrofluidik I L2|06-101 vl	Robotics in Industry L1|01-24K vl	Energy Methods in Structural Mechanics L1|01-73 vl			
14:25 - 15:10								Energieeffizienz und Energieflexibilität in der Produktion ETA-Fabrik vl
15:20 - 16:05		Einführung in die chemische Verfahrenstechnik mit Programmieraufgaben 16:00 - 17:00 L6|01-23 + 4 ue	Nano- und Mikrofluidik I L2|06-101 ue	Robotics in Industry L1|10 ue	Energy Methods in Structural Mechanics L1|01-73 ue	Schadenskunde L1|17-Seminarraum vl	Computer-Aided Robust Design and Tolerancing (CARDTol) L4|02-202 vl	
16:15 - 17:00	Energiesysteme I L4|02-201 vl							Mehrphasenströmungen L1|01-328K vl + ue
17:10 - 17:55								
18:05 - 18:50								

Dienstag

Zeit						
8:00 - 8:45	Maschinendynamik S3|06-051 hü					
8:55 - 9:40			Prozesse der Papier- und Fasertechnik S3|20-5 vl			
9:50 - 10:35	Umformtechnik I L1|01-24K vl	Introduction to the Finite Element Method S4|10-1 vl		Kavitation L1|01-450K vl	Einführung in die Methoden des "Reliability Engineering" L1|01-264K vl	Basic Phenomena in Multiphase Flows L2|06-100 vl
10:45 - 11:30						
11:40 - 12:25	Management industrieller Produktion L4|02-201 vl	Mechatronic Systems I L4|02-202 vl	Electrochemische Verfahrenstechnik L1|01-24K vl			
12:35 - 13:20						
13:30 - 14:15	Computational Fluid Dynamics L5|06-11 vl		Arbeitswissenschaft L4|02-202 vl	Mehrkörperdynamik 14:00 - 17:15 L1|01-543K vl		
14:25 - 15:10		Biomedical Product and Process Design L1|01-K466 vl				
15:20 - 16:05	Lean Production L4|02-202 vl					
16:15 - 17:00		Additive Manufacturing (Topics in MEX) L1|01-24K vl	Space Flight Mechanics S1|03-221 vl			
17:10 - 17:55						
18:05 - 18:50						

Mittwoch

Zeit								
8:00 - 8:45	Wind-, Wasser- und Wellenkraft L1|01-24K vl	Elektrochemische Verfahrenstechnik L3|01-A92 ue						
8:55 - 9:40				Stochastische Prozesse: Von der Strömungsmechanik bis zur Finanzmathematik L1|01-528 vl + ue				
9:50 - 10:35	Qualitätsmanagement L4|02-202 vl	Konvektive Wärmeübertragung L2|06-203 vl	Grundlagen der Messtechnik und Datenerfassung mit LabVIEW L1|01-73 vl + ue					Electrohydrodynamics for Emerging Technologies vl
10:45 - 11:30							Numerische Modellierung von Transportprozessen in Fluiden L4|02-226 vl	
11:40 - 12:25	Sustainable Systems Design L4|02-202 vl	Arbeitswissenschaft L4|02-201 vl		Compressible and Irrational Flow L1|01-466K ue	Additive Manufacturing (Laser-Powder-Bed-Fusion) I L1|01-24K vl			
12:35 - 13:20						Multiscale Methods in Solid Mechanics 12:30 - 14:00 S4|01-314 vl + ue		
13:30 - 14:15	Advanced Fluid Mechanics I L1|01-328K vl + ue	Arbeitswissenschaft L1|01-24K ue	Mechatronic Systems I L4|02-202 vl	Sustainable Product development L4|02-201 vl	Technical Operations Research L3|01-A91 vl		Angewandte Strukturoptimierung 14:00 - 17:00 alternierend S4|10-1 vl L1|10-101 ue	Electrohydrodynamics for Emerging Technologies ue
14:25 - 15:10								
15:20 - 16:05	Machine Learning Applications L3|01-A93 vl			Mathematische Methoden in der Strömungsmechanik: Störungsrechnung 15:30 - 18:00 L1|01-328K vl	Fertigungsgerechte Maschinenkonstruktion I L1|01-293S vl			
16:15 - 17:00	Maschinendynamik 17:10 - 19:45 L4|02-1 + 2 vl	Fundamentals of Navigation II 16:00 - 18:20 L1|01-562K vl + ue	Berechnungsmethoden im Bereich Verbrennungskraftmaschinen II 16:00 - 17:30 L1|01-496 vl + ue					
17:10 - 17:55								
18:05 - 18:50								

Donnerstag

Zeit								
8:00 - 8:45		Trends in Production Engineering (a Uniref-Lecture) 08:30 - 11:30 L4|02-228 vl						
8:55 - 9:40								
9:50 - 10:35	Biomedical Product and Process Design L1|01-K466 ue		Fernwärme und -kälte L3|01-A92 vl					
10:45 - 11:30								
11:40 - 12:25	Technical Operations Research L3|01-A91 ue							
12:35 - 13:20								
13:30 - 14:15	Laser Measurement Technology L1|01-73 vl	High temperature materials behaviour 13:00 - 15:50 S2|17-103 vl	Advanced Vehicle Propulsion Systems L4|02-201 vl	Computational Fluid Dynamics L3|01-A92 vl + ue	Einführung in die chemische Verfahrenstechnik mit Programmieraufgaben 14:00 - 15:30 L4|02-204 vl	Work Organization in Intercultural Context nur bis KW 50 L1|01-528 vl + ue		
14:25 - 15:10								
15:20 - 16:05	Laser Measurement Technology L1|01-73 ue							
16:15 - 17:00		Lean Production L4|02-202 vl						
17:10 - 17:55	Fahrdynamik und Fahrkomfort L1|01-24K ue							
18:05 - 18:50								

Freitag

Zeit								
8:00 - 8:45	Sustainable System Design L402-202 vl + ue							
8:55 - 9:40							Schmierstofftechnologien für den Maschinenbau 8:30 - 12:00 L4|02-231 vl	
9:50 - 10:35	Fundamentals of Space Systems L4|02-201 vl	Composite Structures L1|01-24K vl	Technoogie und Management im Werkzeug- und Formenbau 9:50 - 13:00 Fachgebiet PTW vl	Einführung in die chemische Verfahrenstechnik mit Programmieraufgaben Digitale Lehre ue				
10:45 - 11:30								
11:40 - 12:25	Introduction to the Finite Element Method S4|10-1 vl + ue	Theory of Elastic Stability L1|01-24K vl		Fatigue and Fracture in Lightweight Structures L1|01-309 vl				
12:35 - 13:20								
13:30 - 14:15	Konstruktion im Motorenbau II L1|01-24K vl	Measuring Techniques in Fluid Mechanics L2|06-100 vl		Fatigue and Fracture in Lightweight Structures L1|01-309 ue		Fahrzeugaerodynamik 6 Termine L3|01-A92 vl		
14:25 - 15:10								
15:20 - 16:05			Selected Topics of Space Propulsion vl					
16:15 - 17:00								
17:10 - 17:55								
18:05 - 18:50								

Digitale Lehre

Zeit	
8:00 - 8:45	Compressible and Irrational Flow Digitale Lehre vl
8:55 - 9:40	
9:50 - 10:35	Biofluidmechanik Digitale Lehre vl
10:45 - 11:30	
11:40 - 12:25	Digitale Drucktechnologien Digitale Lehre vl
12:35 - 13:20	
13:30 - 14:15	Konstruktionsprinzipien im Druckmaschinenbau Digitale Lehre vl
14:25 - 15:10	
15:20 - 16:05	Inkjet Printing for Digital fabrication Digitale Lehre vl
16:15 - 17:00	
17:10 - 17:55	Farbwiedergabe in den Medien Digitale Lehre vl
18:05 - 18:50	

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Legend			
	Electives Area Ia :	Fundamentals	
	Electives Area Ib :	Digitalisation	
	Electives Area II :	Core Electives from Mechanical Engineering	Aerospace Engineering subjects from Electives Area II
	Electives Area III :	Electives from Natural Science and Engineering	Aerospace Engineering subjects from Electives Area III
Deviating times are listed separately for the events concerned in the table			Subjects in German are marked with a "D"

Winter term 2024/2025			
Location:		Form:	
S	City Campus	vl	Lecture
L	Lichtwiese Campus	ue	Recitation
B	Botanic Garden	hu	Hall recitation

Blockveranstaltungen:					
Sustainability and Circularity of Vehicles D			Management of Engineering Design		
Th, 23rd Oct. Fr, 24th Oct.	8:15 - 17:00	L2|06-100/101	Fr, 31st Oct. Fr, 4th Nov. Fr, 28th Nov.	9:00 - 17:30	L1|10 - 113

Monday

Zeit								
8:00 - 8:45								
8:55 - 9:40				Future Air Transportation Systems L1|01-24K vl				
9:50 - 10:35	Advanced Fluid Mechanics I L1|01-328K vl	Introduction to Chemical Process Engineering with programming tasks D L2|02-A6 ue	Energy Supply and Environmental Protection D Digital Study vl					
10:45 - 11:30		Theory of Elastic Stability L1|01-24K ue		Machining Technology - Basics and Application L1|01-73 vl	Grundlagen der Papiertechnik S3|20-5 vl			
11:40 - 12:25	Virtual Product Development A D L4|02-201 vl							
12:35 - 13:20		Surface Technologies I D 13:00 - 15:10 S2|07-109 vl						
13:30 - 14:15	Ride and Handling D L3|01-A91 vl		Nano- and Microfluidics I D L2|06-101 vl	Robotics in Industry L1|01-24K vl	Energy Methods in Structural Mechanics L1|01-73 vl			
14:25 - 15:10								Energy Efficiency and Energy Flexibility in Production D ETA-Fabrik vl
15:20 - 16:05		Introduction to Chemical Process Engineering with programming tasks D 16:00 - 17:00 L6|01-23 + 4 ue	Nano- and Microfluidics I D L2|06-101 ue	Robotics in Industry L1|10 ue	Energy Methods in Structural Mechanics L1|01-73 ue	Failure Analysis D L1|17-seminar room vl	Computer-Aided Robust Design and Tolerancing (CARDTol) L4|02-202 vl	
16:15 - 17:00	Energy Systems I D L4|02-201 vl							Multiphase Flows D L1|01-328K vl + ue
17:10 - 17:55								
18:05 - 18:50								

Tuesday

Zeit						
8:00 - 8:45	Machine Dynamics D S3|06-051 hü					
8:55 - 9:40			Unit Operations of Paper and Fiber Material Production D S3|20-5 vl			
9:50 - 10:35	Forming Technology I D L1|01-24K vl	Introduction to the Finite Element Method S4|10-1 vl		Cavitation D L1|01-450K vl	Introduction to the Methods of Reliability Engineering D L1|01-264K vl	Basic Phenomena in Multiphase Flows L2|06-100 vl
10:45 - 11:30						
11:40 - 12:25	Management of industrial Production D L4|02-201 vl	Mechatronic Systems I L4|02-202 vl	Electrochemical Process Engineering D L1|01-24K vl			
12:35 - 13:20						
13:30 - 14:15	Computational Fluid Dynamics L5|06-11 vl		Human Factors/Ergonomics D L4|02-202 vl	Multibody Dynamics D 14:00 - 17:15 L1|01-543K vl		
14:25 - 15:10		Biomedical Product and Process Design L1|01-K466 vl				
15:20 - 16:05	Lean Production L4|02-202 vl					
16:15 - 17:00		Additive Manufacturing (Topics in MEX) L1|01-24K vl	Space Flight Mechanics S1|03-221 vl			
17:10 - 17:55						
18:05 - 18:50						

Wednesday

Zeit								
8:00 - 8:45	Wind, Water and Wave Energy D L1|01-24K vl	Electrochemical Process Engineering D L3|01-A92 ue						
8:55 - 9:40				Stochastic Processes: From Fluid Mechanics to Finance (D) L1|01-528 vl + ue				
9:50 - 10:35	Quality Management D L4|02-202 vl	Convective Heat Transfer D L2|06-203 vl	Principles of Measurement Technique and Data Acquisition with LabVIEW D L1|01-73 vl + ue					Electrohydrodynamics for Emerging Technologies vl
10:45 - 11:30							Computational modelling of transport processes in fluids D L4|02-226 vl	
11:40 - 12:25	Sustainable Systems Design L4|02-202 vl	Human Factors/Ergonomics D L4|02-201 vl		Compressible and Irrational Flow L1|01-466K ue	Additive Manufacturing (Laser-Powder-Bed-Fusion) I L1|01-24K vl			
12:35 - 13:20						Multiscale Methods in Solid Mechanics 12:30 - 14:00 S4|01-314 vl + ue		
13:30 - 14:15	Advanced Fluid Mechanics I L1|01-328K vl + ue	Human Factors/Ergonomics D L1|01-24K ue	Mechatronic Systems I L4|02-202 vl	Sustainable Product development L4|02-201 vl	Technical Operations Research D L3|01-A91 vl		Applied Structural Optimization D 14:00 - 17:00 alternating S4|10-1 vl L1|10-101 ue	Electrohydrodynamics for Emerging Technologies ue
14:25 - 15:10								
15:20 - 16:05	Machine Learning Applications L3|01-A93 vl			Mathematical Methods in Fluid Mechanics D 15:30 - 18:00 L1|01-328K vl	Machine Design I D L1|01-293S vl			
16:15 - 17:00	Machine Dynamics D 17:10 - 19:45 L4|02-1 + 2 vl	Fundamentals of Navigation II 16:00 - 18:20 L1|01-562K vl + ue	Calculation of Engine Test Results II D 16:00 - 17:30 L1|01-496 vl + ue					
17:10 - 17:55								
18:05 - 18:50								

Thursday

Zeit								
8:00 - 8:45		Trends in Production Engineering (a Uniref-Lecture) 08:30 - 11:30 L4|02-228 vl						
8:55 - 9:40								
9:50 - 10:35	Biomedical Product and Process Design L1|01-K466 ue		District heating and cooling D L3|01-A92 vl					
10:45 - 11:30								
11:40 - 12:25	Technical Operations Research D L3|01-A91 ue							
12:35 - 13:20								
13:30 - 14:15	Laser Measurement Technology L1|01-73 vl	High temperature materials behaviour 13:00 - 15:50 S2|17-103 vl	Advanced Vehicle Propulsion Systems L4|02-201 vl	Computational Fluid Dynamics L3|01-A92 vl + ue	Introduction to Chemical Process Engineering with programming tasks D 14:00 - 15:30 L4|02-204 vl	Work Organization in Intercultural Context only till CW 50 L1|01-528 vl + ue		
14:25 - 15:10								
15:20 - 16:05	Laser Measurement Technology L1|01-73 ue							
16:15 - 17:00		Lean Production L4|02-202 vl						
17:10 - 17:55	Ride and Handling D L1|01-24K ue							
18:05 - 18:50								

Friday

Zeit								
8:00 - 8:45	Sustainable System Design L402-202 vl + ue							
8:55 - 9:40							Lubricant Technologies for Mechanical Engineering D 8:30 - 12:00 L4|02-231 vl	
9:50 - 10:35	Fundamentals of Space Systems L4|02-201 vl	Composite Structures L1|01-24K vl	Technology and Management in Tool and Mold Making Industry D 9:50 - 13:00 Institute PTW vl	Introduction to Chemical Process Engineering with programming tasks D Digital Study ue				
10:45 - 11:30								
11:40 - 12:25	Introduction to the Finite Element Method S4|10-1 vl + ue	Theory of Elastic Stability L1|01-24K vl		Fatigue and Fracture in Lightweight Structures L1|01-309 vl				
12:35 - 13:20								
13:30 - 14:15	Structural Design of Internal Combustion Engine II D L1|01-24K vl	Measuring Techniques in Fluid Mechanics L2|06-100 vl		Fatigue and Fracture in Lightweight Structures L1|01-309 ue		Vehicle Aerodynamics D 6 lectures L3|01-A92 vl		
14:25 - 15:10								
15:20 - 16:05			Selected Topics of Space Propulsion vl					
16:15 - 17:00								
17:10 - 17:55								
18:05 - 18:50								

Digital Study

Zeit	
8:00 - 8:45	Compressible and Irrational Flow Digital Study vl
8:55 - 9:40	
9:50 - 10:35	Biofluid Mechanics D Digital Study vl
10:45 - 11:30	
11:40 - 12:25	Digital Printing D Digital Study vl
12:35 - 13:20	
13:30 - 14:15	Design Principles in Printing Press Construction D Digital Study vl
14:25 - 15:10	
15:20 - 16:05	Inkjet Printing for Digital fabrication Digital Study vl
16:15 - 17:00	
17:10 - 17:55	Colour in Media D Digital Study vl
18:05 - 18:50	