

Welcome new SEM Students

- On the university web page you will find a map of the university



■ Your master program is formalized in the Study and Examination regulations and the Module Handbook

- Study and Examination regulations define the formal rules of the complete study program including (but not limited to)

- Program structure
- Examination rules
- ECTS handling
- Thesis process

- Module Handbook and Module Catalogue define the available lectures in detail and are updated regularly

■ Can (and shall) be downloaded from the university web page

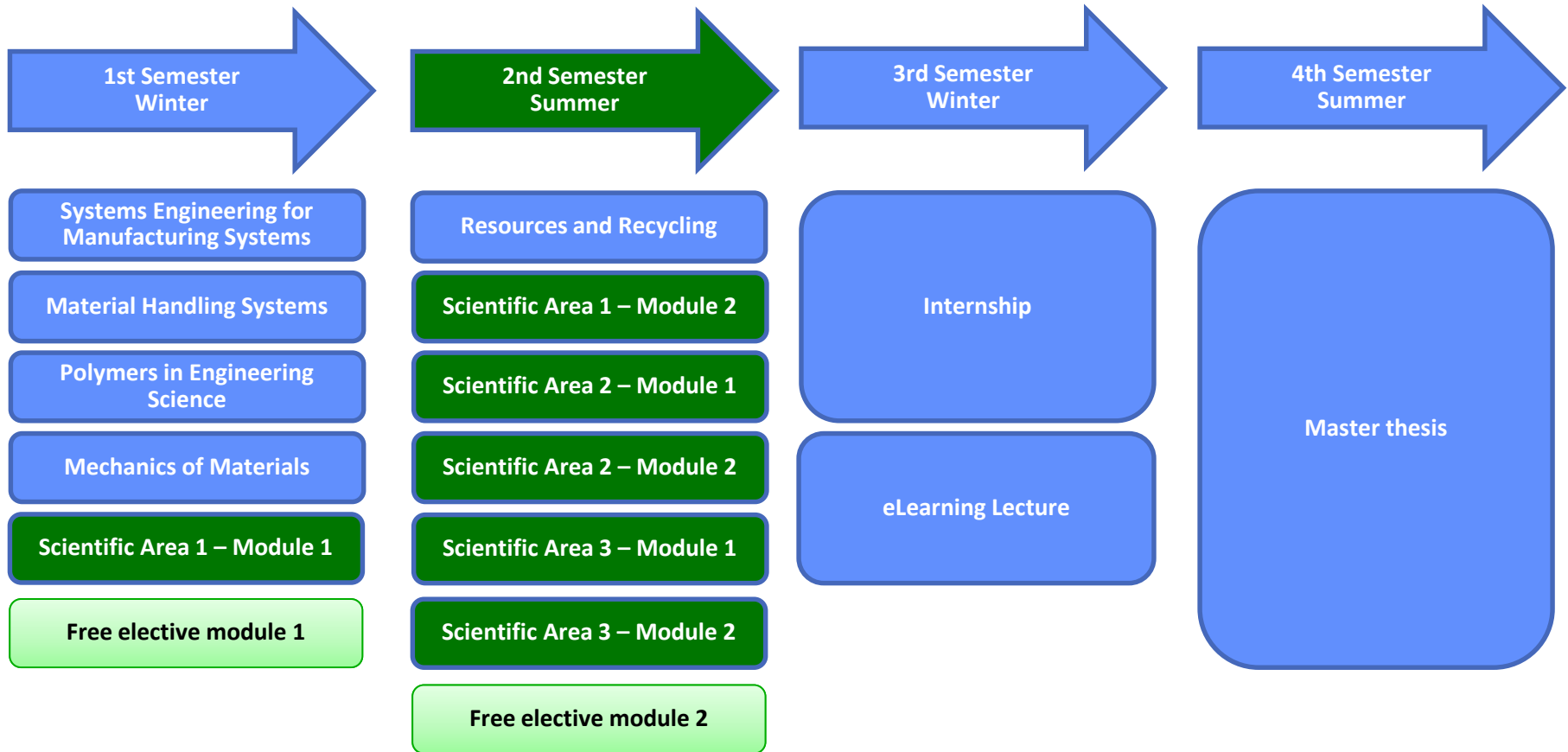


The formalities of the master program

- **Type of course:**
 - Master, Presence studies, given in English
- **Reached degree:**
 - Master of Science
- **Volume:**
 - 4 Semester, 120 Credit Points following ECTS
- **Profile:**
 - Research oriented
- **Special orientation:**
 - The SE course targets towards all-rounders for production systems following the basic ideas of systems engineering
 - Alumni shall be able to take over jobs within planning, organization, and execution of engineering projects coordinating and evaluating the activities of more specialized project members

- **Compulsory subjects**
 - 5 lectures with 25 CP volume
 - Topics: Systems engineering, Materials, Logistics and Sustainability
 - **Compulsory selected subjects**
 - 6 scientific fields (mechanics, digital systems, automation, logistics, manufacturing technology, scientific basics)
 - Selection of two lectures within three fields each with 30 CP volume in total
 - **Free selected subjects**
 - 2 arbitrary lectures of engineering faculties of OvGU in a volume of 10 CP
 - 1 eLearning lecture of engineering faculties of OvGU in a volume of 10 CP
 - **Internship**
 - Volume 15 CP
 - **Master thesis**
 - Volume 30 CP
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Scientific fields						
Mechanics	Digital systems	Planning and control	Logistics	Manufacturing technology	Scientific basics	
Compulsory subjects (5 Lectures / 25 CP)	Mechanics of materials (5 CP)	Systems Engineering (5 CP)		Material Handling Systems (5 CP)	Resources and Recycling (5 CP) Polymers in Engineering Science (5 CP)	
Compulsory selected subjects (6 Lectures / 30 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)
Free selected subjects (2 Lectures / 10 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)	2 Lect. (10 CP)
eLearning lecture (10 CP)	1 Topic (10 CP)					
Internship (15 CP)	1 Project (15 CP)					
Master thesis (30 CP)	1 Topic (30 CP)					



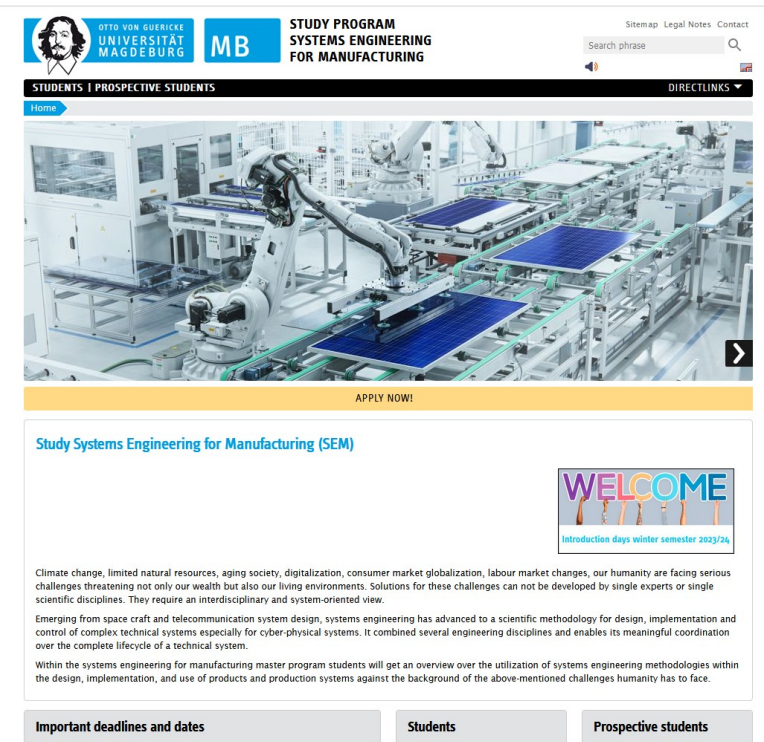
- Look in the module handbook to see the currently for you available lectures and their location within the time frame of the program

		Umfang		1. Sem. WiSe		2. Sem. SoSe		3. Sem. WiSe		4. Sem. SoSe					
		V	S	P	CP	LN	PL	CP	LN	PL	CP	LN	PL		
Pflichtbereich / Compulsatory area													Σ 25 CP		
Mechanics of Materials		2	2		5		K								
Systems Engineering for Manufacturing Systems		2	1		5		K								
Material Handling Systems		2	1		5		K								
Polymers in Engineering Science – From Polymer Structure to Final Product		2	1		5		K								
Resources and Recycling		2	1					5		K					
Wahlpflichtbereich / Compulsatory chosen area													Σ 40 CP		
FB 1: Mechanics	Finite Element Method	2	2					5		M					
	Inelastic Structural Analysis	2	2					5		K					
	Mechanics of Lightweight Structures	2	2					5		M					
	Simulation methods of dynamical systems	2	2					5		K					
FB 2: Digital systems	CAX Basics	2	2					5		K					
	Evolutionary Multi-Objective Optimization	2	2					5		K					
	Engineering Data Logistics based on AutomationML	1	1	1				5		W					
	Python in Production System Engineering	1	1	1	5		W								
FB 3: Planning and Control	Advanced Applications of Industry 4.0-Technologies	2	1		5		W								
	Factory automation and industrial robotics	2	1					5		K					
	Production system planning	2	1					5		K					
	Supply Chain Practice: Enterprise Resource Planning (ERP) Systems	2	1		5		W								
FB 4: Logistics	Collaboration Management in Supply Networks	2	1					5		W					
	Handling and Logistics of Bulk Materials	2	1					5		K					
	Modeling and Simulation in Logistics Planning	2	2					5		W					
	Supply Networks and Logistics Service Providers	2	1					5		K					
FB5: Manufacturing technology	Engineering Design	2 2	2 2		5			5		K					
	Design and Additive Manufacturing Processes	2	2					5		K					
	Precision and Micro Manufacturing Technologies	2	1					5		K					
FB6: Scientific technology	Modul 1 / Module 1														
	Modul 2 / Module 2														
Freies Wahlmodul 1 / Free elective module 1															
Freies Wahlmodul 2 / Free elective module 2															
eLearning lectures													Σ 10 CP		
Establishing digital engineering chains											10		K		
Digitalisation and Automation of Material Handling Systems											10		K		
Requirements, consideration and selection of materials along engineering chains											10		K		
Praktikum / Internship													Σ 15 CP		
Praktikum / Internship											15	W	W		
Masterarbeit / Master thesis													Σ 30 CP		
Masterarbeit incl. Kolloquium / Master thesis incl. colloquium													30	W	W
Gesamt-CP je Semester								30		35		25		30	

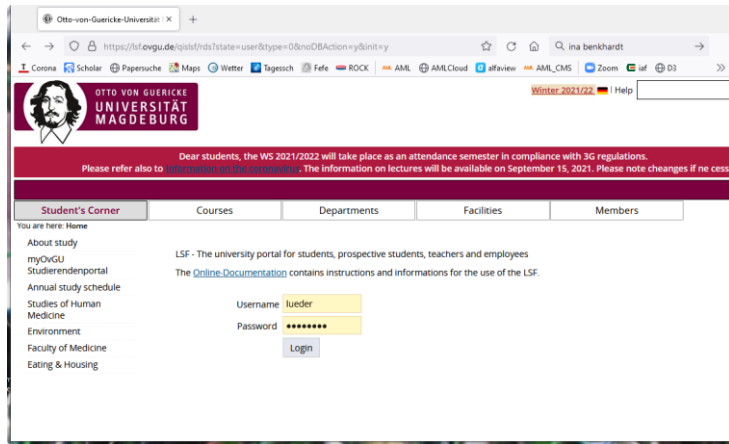
- **To decide about the modules to be selected strongly depends on the interest of the student.**
- **Each lecture contains theoretical and practical parts, is motivated by practical use cases, and is oriented towards practical application.**
- **Main decision criteria for students shall be the intended working environment after the master program addressing more specialized skills within one or more scientific fields or targeting more generalized skills.**

- **Examples of motivations and decisions can be:**
 - **Students might be mainly interested to become a systems engineer. They shall combine modules from the scientific fields Digital systems and Planning and Control and shall accompany them with selected modules ranging under the scientific field Scientific basics.**
 - **Students might be mainly interested in design and control of production systems. They shall combine modules from the scientific fields Digital systems, Planning and Control, and Logistics.**
 - **Students might be mainly interested in design of products. They shall combine modules from the scientific fields Mechanics, Digital systems, and Manufacturing technology.**
 - **Students might be mainly interested in the application of simulations for different purposes. They shall combine modules from the scientific fields Mechanics, Digital systems, and Logistics.**

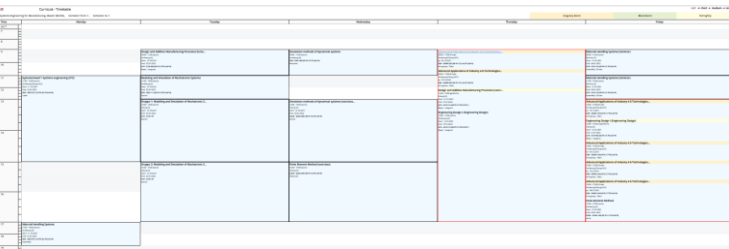
- Relevant information about the study program can be found under
 - www.sem.ovgu.de
- This web page includes especially information about content, structure, main deadlines, ... of the study program.
- Detailed information on the content of the program is given in
 - SPO → https://www.verwaltungshandbuch.ovgu.de/H%C3%B6B+Teil+I/1_05+Studienordnungen-media_id-9824-p-26.html
 - Module Handbook and Module Catalogue → https://www.verwaltungshandbuch.ovgu.de/Modulhandb%C3%BCcher-media_id-9830.html



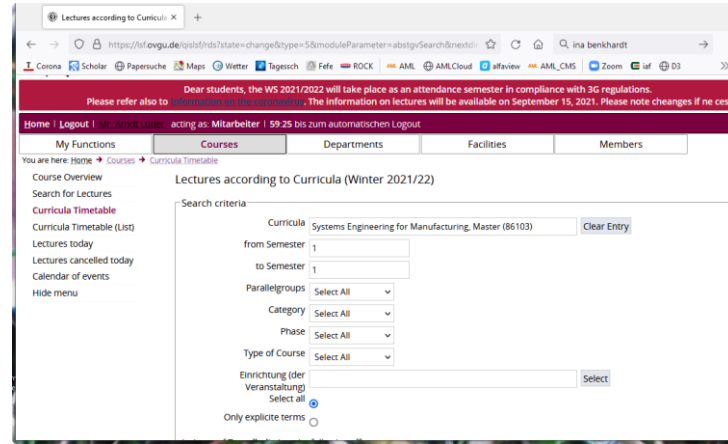
- **Step 1: Lecture search and registration within LSF (<https://lsf.ovgu.de>)**
 - Required to register to a course



Step 1.a → log in with your university account



Step 1.c → select a lecture you intend to join



Step 1.b → select your program and semester to create your general time table



Step 1.d → register to the lecture



How to join lectures

Step 2: Lecture search and registration in eLearning (<https://elearning.ovgu.de/>)

- Required to access the lecture materials (slides, videos, etc.)

Zentraler Anmelde Dienst (Single Sign-On) der OVGU
Shibboleth Identity Provider

Benutzername

Passwort

Anmeldung nicht speichern

Die zu übermittelnden Informationen anzeigen, damit ich die Weitergabe gegebenenfalls ablehnen kann.

Anmelden

Passwort vergessen?

Hilfe benötigt?

OVGU IT-Service: 0391 67 58888

OVGU Medical Faculty ITMT: 0391 67 13200

OVGU Medical Faculty Moodle: 0391 67 24346

Bitte speichern Sie diese Anmeldeseite NICHT als Lesezeichen!

Zum Logout schließen Sie den Browser, um zu vermeiden, dass andere Nutzer unter Ihrem Benutzerkonto weiterarbeiten! Dieser Hinweis gilt insbesondere dann, wenn Sie sich von einem öffentlichen Ort aus anmelden!

Zur Benutzung von eBooks, eJournals, eArticle etc...Vervielfältigungen (z.B. Kopien, Downloads) sind nur von einzelnen Kapiteln oder Seiten und nur zum eigenen wissenschaftlichen Gebrauch erlaubt. Keine Weitergabe an Dritte. Kein systematisches Downloaden durch Robots.

Datenschutzerklärung der Otto-von-Guericke-Universität Magdeburg nach DSGVO

Step 2.a → log in with your university account

Welcome to the central e-learning platform (Moodle) of the University of Magdeburg!

This platform offers teachers the opportunity to set up digital teaching and learning rooms, to provide materials, to work cooperatively with your students, or to communicate specific topics.

As a student, you can use the Moodle courses offered here independently of time and place and according to your own learning needs.

For information about digital teaching support and tips on other e-learning tools, please visit the following website <https://www.ovgu.de/elearning.html>

Course categories

- Wise 2021/22
- SoSe 2021
- SoSe 2021 - Prüfungen/Exams
- Wise 2020/21
- Wise 2020/21 - Prüfungen/Exams
- Andere Semester
- Universitätsbibliothek
- Dez. Personalwesen - Weiterbildungen für Beschäftigte der OVGU
- Zentrum für Wissenschaftliche Weiterbildung Magdeburg (ZWW)
- Zentrum für Lehrerbildung
- IDe4Business

SoSe 2021 Courses by faculty

- MB FACULTY OF MECHANICAL ENGINEERING
- VST FACULTY OF PROCESS AND SYSTEM ENGINEERING
- EIT FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY
- INF FACULTY OF COMPUTER SCIENCE
- MATH FACULTY OF MATHEMATICS
- NAT FACULTY OF NATURAL SCIENCES
- HW FACULTY OF HUMAN SCIENCES
- WW FACULTY OF ECONOMICS AND MANAGEMENT

Previous Semesters

Central institutions
University computer centre
University library

Step 2.b → search for the required course

E-Learning OvGU

Home / Courses / Search / Mechanics of Materials

Mechanics of Materials

Search results: 2

Mechanics of Materials

Teacher: Holm Altenbach
Teacher: Katharina Knape

Mechanics of Materials

Teacher: Holm Altenbach
Teacher: Katharina Knape

Step 2.c → select the required course

Mechanics of Materials

Home / My courses / SoSe 2021 / FMB / IFME / MoM 2021 / Enrol me in this course / Enrolment options

Enrolment options

Mechanics of Materials

Teacher: Holm Altenbach
Teacher: Katharina Knape

Self enrolment (Student)

No enrolment key required.

Enrol me

Step 2.d → enrol to the required course

- **To take part in an exam, students have to apply for it.**
 - **The application to exams will be possible in each winter semester between November 15th and November 30th and in each summer semester between May 15th and May 31st.**
 - **Students missing these deadlines cannot participate in exams.**
- **The application to an exam is executed over LSF.**
 - **Students shall log in at LSF under <https://lsf.ovgu.de> using your university account,**
 - **go to administration of exams and choose apply for exams,**
 - **select within the upcoming lecture tree the module of the intended exam,**
 - **use the point “registration for exam” to access the registration page and**
 - **register by selecting yes.**
- **Students will get a verification mail for the registration. If this mail does not arrive within some minute students shall recheck.**

- **If an application is not possible over LSF, students shall**
 - contact the examination office as early as possible to not miss the registration deadline
 - For some lecture the application is made on written request.
- **After application to an exam the related lecturer will check the fulfilment of prerequisites for attending the exam for each student. If they are fulfilled the student is enrolled to the exam.**
- **In case of medical and other issues students can disenroll from an exam until one week before the exam.**
 - Therefore the same way in LSF shall be used as for application.

- **Your first class contacts in case of problems are**
 - **Examination office supports in all cases of lectures and exams**
 - Your contact person is Mrs. Benkhardt
 - **Studienfachberater supports in all cases of study program structure and mitigations of general problems**
 - Responsible is currently Prof. Lüder
- **In all cases of formal problems you can send a request to the examination council**

