Detailed study plan with changes according to faculty council decisions as well as detailed information

Status: 19.04.2023

Module no.	Module name	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester	5 th Semester (M)	6 th Semester	LP
		V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	_
Mandato	ory area					1	1	I
MW- WW- 01 16, 22	Fundamentals of Mathematics	4/2/0/1 PL						6
<u>MW-</u> <u>WW-02</u>	General and Inorganic Chemistry	4/1/1 2xPL						7
<u>MW-</u> <u>WW-03</u>	Business Administration and Language Skills - Language Competence - Business Administration	2 SWS SK PL (2) 2 SWS SK	2/1/0/1 PL (3) 2/1/0/1					5
MW- WW- 04 10	Physics	2/1/0/1 (3)	2/1/2/1 2xPL (5)					8
MW- WW- 05 16	Engineering Mechanics	2/2/0/1 PL (5)	2/2/0/1 PL (4)					9
MW- WW- 12 1, 16, 22	Fundamentals of Materials Science	4/1/1/0 PL (7)	4/1/1/0 2xPL (8)					15
MW- WW- 06 1, 10, 11, 12, 22	Engineering Mathematics		4/2/0/1 PL					6
MW- WW-07	Organic and Physical Chemistry - Organic Chemistry - Physical Chemistry		2/1/0/1 PL (4) 2/1/0/1	2/1/0/1 PL (3) 2/1/0/1				7

Module no.	Module name	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester	5 th Semester (M)	6 th Semester	LP
		V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	
<u>MW-</u> WW-08	Fundamentals of Electrical Engineering			2/2/0/1 PL				5
MW- WW-09 1, 11, 22	Special Topics of Mathematics			2/2/0/1 (4)	2/2/0/1 PL (5)			9
<u>MW-</u> <u>WW-10</u> 12, 13, 16, 22	Design Theory			2/2/0/1 (4)	2/2/0/1 PL (4)			8
MW- <u>WW-</u> 11 ^{13, 16,} 22	Computer Science - Computer Application in Mechanical			2/2/0/0 PL (4)	2/1/1/0 2xPL (4)			8
22	Engineering - Software and Programming Technology			2/2/0/0	2/1/1/0			
<u>MW-</u> <u>WW-13</u> 2, 8, 16	Materials Production and Manufacturing Technology - Production Engineering - Material Production			2/1/0/0 1 day E, PL (4) 2/1/0/0	2/0/0 PL (3) 2/0/0/0			7
MW- WW- 14 1, 2	Materials Testing and Materials Diagnostics - Materials Testing - Materials Diagnostics			2/0/1/0 PL (3) 2/0/1/0	2/0/1/0 2xPL (3) 2/0/1/0			6
MW- WW- 15 1, 16	Metallic Materials - Heat Treatment and Metallic Materials 1 - Metallic Materials 2			4/0/1/1 PL (5) 4/0/1/1	3/0/0/1 PL (4) 3/0/0/1			9
MW- WW-16 ¹	Advanced Ceramic Materials				2/0/1/1 2xPL			5

Module	Module name	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester	5 th Semester	6 th Semester	LP
no.		V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	(M) V/Ü/P/T	V/Ü/P/T	
MW-	Polymers and	V/O/F/1	V/O/F/1	V/O/F/1	V/O/F/1	3/0/1/0 2xPL (5)	2/0/0 PL (4)	9
WW-	Biomaterials					3/0/1/0 ZXI L (3)	2/0/01 2 (4)	,
17 ^{16, 22}	- Polymers					3/0/1/0		
	- Biomaterials						2/0/0/0	
MW-	Powder Metallurgy and					3/0/0/0 (4)	2/0/1/0 2xPL (4)	8
<u>WW-20</u>	Sintered Materials							
2, 17, 26								
MW-	Materials Physics and					3/1/0/0 (5)	3/1/0/0 PL (5)	10
WW-	Materials Chemistry							
21 1, 7, 16,								
<u>17, 22</u>								
MW-	General and Engineering-					#/#/# PL ¹⁾ (2)	#/#/#/# PL ¹⁾ (3)	5
<u>WW-24</u>	Specific Qualifications in							
	Materials Science							
MW-	Advanced Course					4/0/0 PL ²⁾ (5)	2/0/0 PL ²⁾ (3)	8
WW-28 ⁴	Materials Science							
Compuls	ory elective area							
			Selection of mode	ules amounting to	10 LP			
MW-	Computer Simulation in					2/0/1/0 PL		5
<u>WW-18</u>	Materials Science							
MW-	Metallography					2/0/1/0 2xPL		5
<u>WW-19</u>								
MW-	Corrosion and Corrosion					2/0/1/0 2xPL		5
WW-26	Protection							

Module	Module name	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester	5 th Semester	6 th Semester	LP
no.						(M)		
		V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T	V/Ü/P/T]
MW-	Characterisation of Soft					2/2/0/0 2xPL		5
WW-	Materials							
<u>GM10</u>								
MW-	Dental Materials					2/2/0/0 2xPL		5
WW-								
<u>AW06</u>								
Bachelor thesis							9	9
Colloquium							1	1
Credit points		30	30	31	29	31	29	180

Annex

M Mobility window according to § 6 Paragraph 1 Sentence 3 Study Regulations

V Lecture Ü Exercise

P Practical course SK Language course

T Tutorial Excursion

PL Examination performance(s)

LP Credit points - in brackets () pro rata allocation to individual semesters according to workload

SWS Lecture hours per week

Alternatively, at the student's choice, courses with a total volume of 4 SWS including the examination performances specified according to the catalogue General and Engineering-Specific Qualifications Materials Science.

The number of required examinations can be found in the catalogue of the advanced module in materials science of the bachelor's degree programme in materials science according to the module description.

Extension according to § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma Programme in Materials Science of 29 April 2019 or Bachelor's Programme in Materials Science of 28 April 2019 according to the resolution of the Faculty Council of 15.04.2020 Adjustment in the field Applicability. 2 Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Materials Science of 29 April 2019 or Bachelor's Programme in Materials Science of 28 April 2019 in accordance with the resolution of the Faculty Council of 15.04.2020 Adjustment in the field Responsible lecturer. Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Bachelor's Programme in Materials Science of 28 April 2019 in accordance with the resolution of the Faculty Council of 15.04.2020 Adjustment in the field Responsible lecturer. 7 Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Materials Science of 29 April 2019 or Bachelor's Programme in Materials Science of 28 April 2019 in accordance with the resolution of the Faculty Council of 17.03.2021 Adjustment in the field Responsible lecturer. 8 Correction of the semester-based SWS distribution. 10 Extension according to § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma Programme in Materials Science of 29 April 2019 or Bachelor's Programme in Materials Science of 28 April 2019 according to the resolution of the Faculty Council of 21.04.2021 Adjustment in the field Applicability. 11 Extension according to § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma Programme in Process Engineering and Natural Materials Engineering of 29 April 2019, the Bachelor Programme in Process Engineering and Natural Materials Engineering of 28 April 2019 or Diploma Postgraduate Programme in Process Engineering and Natural Materials Engineering of 15 February 2020 according to the decision of the Faculty Council of 15 April 2020 Adjustment in the field Applicability. 12 Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Mechanical Engineering of 17 May 2019 or Bachelor's Programme in Mechanical Engineering of 17 May 2019 or Diploma Postgraduate Programme in Mechanical Engineering of 17 January 2020 in accordance with the resolution of the Faculty Council of 21.04.2021 Adjustment in the field Applicability. 13 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Materials Science dated 29 April 2019 or Bachelor's degree Programme in Materials Science dated 28 April 2019 in accordance with the resolution of the Faculty Council dated 20.10.2021 Adjustment in the field Responsible lecturer. 16 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Materials Science of 29 April 2019 or Bachelor's degree Programme in Materials Science of 28 April 2019 in accordance with the resolution of the Faculty Council of 20.04.2022 Adjustment in the field Applicability. 17 Correction of SWS distribution and merging of courses. 22 Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Materials Science of 29 April 2019 or Bachelor's degree Programme in Materials Science of 28 April 2019 in accordance with the resolution of the Faculty Council of 19.10.2022 Adjustment in the field Applicability.

- Extension in accordance with § 6 Para. 6 and § 10 Para. 2 Study Regulations for the Diploma Programme in Materials Science of 29 April 2019 or Bachelor's Programme in Materials Science of 28 April 2019 in accordance with the resolution of the Faculty Council of 19.10.2022 Adjustment in the field Responsible lecturer.
- Extension in accordance with § 6 para. 6 and § 10 para. 2 Study Regulations for the Diploma degree programme in Materials Science dated 29 April 2019 or Bachelor's degree Programme in Materials Science dated 28 April 2019 in accordance with the resolution of the Faculty Council dated 19.04.2023 Adjustment in the field Responsible lecturer.