Study Plan Bachelor of Science in Materials Science at TU Darmstadt, Study Regulations 2024 (180 CP)

Language of Tuition: GERMAN - certificates required

This module overview is a translated and abbreviated easy-to-read version of the official course schedule as defined in the examination regulations, to be found in the "Satzungsbeilagen of TU Darmstadt".

1st Semester	СР	2nd Semester	СР	3rd Semester	СР	4th Semester	СР	5th Semester	СР	6th Semester	СР
Fundamentals of Materials Science (Materials Science I)	6	Thermodynamics of Solid State Bodies (Materials Science II)	5	Real Crystals and their Properties (Materials Science III)	5	Mechanical Properties (Materials Science IV)	6	Diffusion in Solid State Bodies (Materials Science V)	5	Functional Properties of Condensed Matter (Materials Science VII)	6
Mathematics I (Civil Eng.)	8	Mathematics II (Civil Eng.)	8	Mathematics III (Civil Eng.)	8	Sustainable Material Production and Processing	5	Crystal and Electronic Solid State Structure (Materials Science VI)	5	Structural Materials	6
General Chemistry	5	Physical Chemistry I	6	Characterisation Methods in Materials Science	6	Numerical Methods in Materials Science	3	Seminar: Study project and Scientific presentations	5		
Physics I	5	Physics II	5	Technical Mechanics for Materials Science	6	Circular Materials*	5	Machine Learning for Materials Science*	6	Bachelor Thesis and Colloquium	
Physics Lab	3					Introduction to Electrical Engineering	6	Phyiscal Chemistry II	6	Bactieioi Tilesis and Colloquium	15
						Elective Courses Materials Science: 2 out of these 3 modules = 12 CP					
Basic Programming Course	3	Basic Materials Science Lab I	3	Basic Materials Science Lab II	3	Advanced Materials Science Lab I	3	Advanced Materials Science Lab II	3		
Technical-Scienctific Elective Courses (freely distributable over semesters)						10					
General Studies (freely distributable over semesters)						6					
Mentoring			0								

Mathematics and Natural Science	45 CP	Compulsory Complementary	6 CP	Bachelor Thesis	15 CP
Basics (Compulsory)		Technology Courses	0 CF	Compulsory Courses Materials Science	68 CP
Elective Courses Materials Science (12 CP)	0 - 6 CP		0 - 6 CP		0 - 6 CP
Elective Courses Natural Sciences/Technology	10 CP	General Studies	6 CP	Compulsory Lab Courses	18 CP
Recommended Supplementary Offers	0 CP			Sum	180 CP

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Orientation Week

Legend:

CP = Credit Points (ECTS system)							
* English & German							