Study Plan Master of Science Materials Science at TU Darmstadt, Study Regulations 2024 (120 CP)

Language of Teaching: ENGLISH

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". A minimum of 120 credit points (CP) is required for graduation.

1st Semester	*CP* *CHW*	*2nd Semester*	*CP* *CHW*	*3rd Semester* *(optional stay abroad)*	*CP* *CHW*	*4th Semester*	*CP*
Research Lab I	**SE 4** *Lab4*	Research Lab II	**SE 4** *Lab4*	Advanced Research Lab	**SEg 15** *Lab24+P2*	Master's Thesis and Defense	**TE 30**
Quantum Mechanics for Mat. Sci. OR Micromechanics for Mat. Sci.	**TE 6** *L3+E1*	Theoretical Methods in Materials Science	**TE 6** *L3+E1*				
Functional Materials	**TE 6** *L4*	Advanced Characterization Methods of Materials Science	**TE 6** *L3+E1*				
Surfaces and Interfaces	**TE 5** *L3*	Sustainable Materials	**TE 6** *L4*				
Elective Courses Materials Science (freely distributable over semesters)				**TE/SEg 22-26*** *(all modules need to be graded)*			
General Studies (freely distributable over semesters)				**TE/SEg/SE 6-10*** *(modules may be graded or ungraded)*			
Mentoring	**0**						
Orientation Day	**0**						

Elective Courses Materials Science	22 - 26 CP*	Compulsory Courses	29 CP
		Elective Courses Mechanics (QM or MM)	6 CP
		Compulsory Lab Courses	23 CP
General Studies	6 - 10 CP*	Master's Thesis	30 CP
Recommended Supplementary Offers	0 CP	**Sum**	**120 CP**

Legend:

CP = Credit Points (ECTS system)
CHW = Contact Hours (45min) per Week
TE = Technical Examination = graded exam (max. 3 attempts, except thesis: max. 2 attempts; additionally one oral supplementary examination (mEP) throughout the Master's course)
SE = ungraded Study Examination
SEg = graded Study Examination
L = Lecture, E = Exercises, P = Presentation, Lab = Laboratory Course
* = 4 CP of the total of 32 CP in the elective courses can be freely distributed between the two areas