

## 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.

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

### 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

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