

Soft Matter and Materials (M.Sc.) - Effective 01 October 2023

The programme is a joint programme of the Johannes-Gutenberg-University, Mainz, and TU Darmstadt.

Language of Tuition:
ENGLISH
certificates required

Programme start in a winter semester at the Johannes-Gutenberg-University, Mainz:

The degree programme consists of 120 Credit Points (CP) in total:

Mandatory Subject Area: 43 CP ■
- including Practicals: 16 CP ■
Elective Area: 6 CP ■
Research/Thesis: 55 CP ■

The following **module overview** is an abbreviated, easy-to-read version of the **official course schedule** in the examination regulations, to be found in the Satzungsbeilagen of TU Darmstadt:

1st semester (winter sem.) J.-G.-University, Mainz	2nd semester TU Darmstadt	3rd semester Darmstadt/Mainz	4th semester Darmstadt/Mainz
Macromolecular Chemistry * (6 CP)	Physics of Soft Matter I (5 CP)	Advanced Soft Matter and Materials (6 CP)	Master Thesis (31 CP)
Modern and Industrial Aspects of Polymer Materials (6 CP)	Physics of Soft Matter II (5 CP)	Research Module 1 (8 weeks) ** (24 CP)	
Modern and Industrial Aspects of Polymer Materials (6 CP)	Advanced Polymer Chemistry and Polymer Nanotechnology (4 CP)	Research Module 2 (8 weeks) ** (24 CP)	
Practical Course: Modern Aspects of Macromolecular Chemistry (6 CP)	Practical Work: Physics Experiments and Theory (10 CP)		
Advanced Statistical Physics (6 CP)	Elective Area (2 out of 4): Polymers and Interfaces, Pulp and Paper, Techn. Polym. Chemistry, Sust. Polym. Chemistry (6 CP)		

* Exchange Pool: Have the competences of the module already been achieved in the previous bachelor programme, then this module is to be replaced from the following pool:
Condensed Matter, Biochemical Methods

** Alternatively: one 16-week instead of two 8-week Research Modules

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Physics of Soft Matter II (5 CP)	Modern and Industrial Aspects of Polymer Materials (6 CP)	Research Module 1 (8 weeks) ** (24 CP)	
Advanced Polymer Chemistry and Polymer Nanotechnology (4 CP)	Modern and Industrial Aspects of Polymer Materials (6 CP)	Research Module 2 (8 weeks) ** (24 CP)	
Practical Work: Physics Experiments and Theory (10 CP)	Practical Course: Modern Aspects of Macromolecular Chemistry (6 CP)		
Elective Area (2 out of 4): Polymers and Interfaces, Pulp and Paper, Techn. Polym. Chemistry, Sust. Polym. Chemistry (6 CP)	Advanced Statistical Physics (6 CP)		

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