

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

Language of Tuition:  
GERMAN  
certificates required

- Mandatory Subject Area:** 29-32 CP ■
- Elective Area Mechatronics:** 36-55 CP ■
- General Studies:** 6-12 CP ■
- Research/Thesis:** 30 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:

1 <sup>st</sup> semester	2 <sup>nd</sup> semester	3 <sup>rd</sup> semester	4 <sup>th</sup> semester
<b>Mechatronics Basics*</b> (4-5 CP)	<b>Dynamic Systems***</b> (4-6 CP)		<b>Master Thesis</b> (30 CP)
<b>Machine Learning**</b> (6 CP)			
<b>Fundamentals****</b> (15 CP)			
<b>Elective Subject Area</b> Without ADP, Seminars and Practicals; Open Catalogue; Specific modules from Mechanical Engineering, Electrical Engineering, Computer Science and certain other modules (18-53 CP)			
<b>ADP, Seminars and Practicals</b> From two different departments, at least one ADP or Seminar must be chosen, as well as a maximum of 1 module in Internships (2-37 CP)			
<b>Studium Generale</b> (6-12 CP)			

\* Electromechanical Systems I or Microsystems Technology  
 \*\* Machine Learning Applications or Machine Learning for Mechatronic and Dynamic Systems  
 \*\*\* Machine Dynamics or System Dynamics and Control Technology III or Control of Distributed Cyber-Physical Systems  
 \*\*\*\* Real-time Applications and Communication with Microcontrollers and Programmable Logic Devices and Model Building, Simulation and Optimization and Tools and Methods of Product Development.

Study Programmes

[www.tu-darmstadt.de/studieren](http://www.tu-darmstadt.de/studieren)

Course Schedule

[www.tucan.tu-darmstadt.de](http://www.tucan.tu-darmstadt.de)

Application and Admission for international students  
(International Office)

[www.tu-darmstadt.de/international](http://www.tu-darmstadt.de/international)

Zentrale Studienberatung und -orientierung ZSB  
(Central Student Advisory and Orientation Office)

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Opening hours: [www.zsb.tu-darmstadt.de](http://www.zsb.tu-darmstadt.de)

## Imprint

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# Mechatronik Master of Science



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## Brief Description

The interdisciplinary Master of Science programme Mechatronik deepens and expands the skills and knowledge about designing and producing integrated mechanical-electronic systems with automated and intelligent functions acquired in the Bachelor's degree programme. For this purpose, Electrical Engineering and Information Technology, Precision Mechanics, Mechanical Engineering and Informatics are combined in an interdisciplinary course of study. The programme focuses on a particularly practical and research-oriented approach, which will be guaranteed by the Advanced Research Project, an internship, the internship module, and applied courses.

[www.mechatronik.tu-darmstadt.de](http://www.mechatronik.tu-darmstadt.de)

## Admission

For information on application deadlines please refer to

[www.tu-darmstadt.de/bewerbung](http://www.tu-darmstadt.de/bewerbung)

[www.tu-darmstadt.de/application](http://www.tu-darmstadt.de/application)