

## Mechatronics (M.Sc.) (as per degree programme guidelines 01.10.2014)

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

- ▶ **Mandatory Subject Area:** 31-34 CP ■
- ▶ **Elective Subject Area:** 44-47 CP ■
- ▶ **General Studies:** 12 CP ■
- ▶ **Master's Thesis:** 30 CP ■

**Language of Tuition:**  
**GERMAN**  
*certificates required*

This leads to the following *possible* semester course schedule:

1. Semester	2. Semester	3. Semester	4. Semester
Microtechnical Systems (min. 4 CP, max. 5 CP)*	Real Time Applications and Communication with Microcontrollers and programmable Logic Devices (4 CP)	Dynamic Systems (min. 4 CP, max. 6 CP)**	Master's Thesis (30 CP)
Applied Product Development (4 CP)	System Dynamics and Automatic Control Systems II (7 CP)		
	Digital Control Systems I (4 CP)		
	Modelling and Simulation (4 CP)		
	Studium Generale (12 CP)***		
	Elective Subject Area (44-47 CP)****		

\* Electromechanical Systems I *or* Microsystem Technology

\*\* System Dynamics and Automatic Control Systems III *or* Advanced Structural Dynamics

\*\*\* All modules from the departments 1, 2, 3, 15 as well as the Language Resource Centre and certain modules from other departments.  
Maximum of 4 modules

\*\*\*\* Modules from the Elective Subject Areas: Electrical Engineering and Information Technology *and* Mechanical Engineering (without ADP, seminars and internships) as well as ADP, seminars, internships and InfINat. The relevant catalogues can be found within the Degree Programme Guidelines.

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

Support and counselling for international students  
[www.tu-darmstadt.de/aaa/support](http://www.tu-darmstadt.de/aaa/support)

## Zentrale Studienberatung und -orientierung ZSB (Central Student Advisory)

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

### Opening hours

Tuesday & Thursday 10-12 a.m.  
Wednesday 2-4 p.m.  
Thursday 4-6 p.m.

## Imprint

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## Admission

For information on application deadlines,  
please refer to:  
[www.tu-darmstadt.de/aaa/](http://www.tu-darmstadt.de/aaa/).

# Mechatronics Master of Science

Mechatronik (M.Sc.)



 TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

 ZSB ZENTRALE  
STUDIENBERATUNG  
UND -ORIENTIERUNG

 FACHBEREICH  
MASCHINENBAU

 et:it Fachbereich  
Elektrotechnik und  
Informationstechnik

## Brief Description

The interdisciplinary Master of Science programme Mechatronics 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)