

The degree programm consists of 180 Credit Points (CP) in total:

Language of Tuition:
GERMAN
certificates required

Mandatory Subject Area:	123 CP
- Including Measuring Technique Lab:	3 CP
Electives Labs:	10-21 CP
Electives:	33-39 CP
Interdisciplinary Elective Area:	6-12 CP
Research/Thesis:	12 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	2nd semester	3rd semester	4th semester	5th semester	6th semester
Mathematics I (8 CP)	Mathematics II (8 CP)	Mathematics III (8 CP)	Statistics / Probability Theory (4 CP)	System Dynamics and Automatic Control Systems I (6 CP)	System Dynamics and Automatic Control Systems II (7 CP)
Electrical Engineering and Information Technology I (7 CP)	Electrical Engineering and Information Technology II (7 CP)	Deterministic Signals and Systems (7 CP)	Scientific Computing (4 CP)	System Modelling, Mechanical Components and Actuators for Mechatronics (6 CP)	Bachelor's Thesis (12 CP)
Logic Design (6 CP)	General Informatics I (6 CP)	Technical Thermodynamics I (6 CP)	Measuring Technique (4 CP)		
Engineering Mechanics I (Statics) (6 CP)	Engineering Mechanics II (Elastostatics) (6 CP)	Engineering Mechanics III (Dynamics) (6 CP)	Systems of Electrical Engineering (4 CP)		Lab Practical Actuators for Mechatronic Systems (5 CP)
Mentoring (0 CP)		Electronics (4 CP)	Lab Practical Scientific Computing (3 CP)		Lab Practical Course Control Engineering I (6 CP)
Lab Practical Electrical Engineering and Information Technology I A (2 CP)	Lab Practical Electrical Engineering and Information Technology I B (2 CP)	Lab Practical Electronics (3 CP)	Measuring Technique Lab (3 CP)	Electives Scientific Methods; C/C++ Programming (1 - 16 CP)	
			Electives: min. 2 fields out of Electronic Engineering and Information Technology; Mechanical Engineering ; Computer Science (13 - 25 CP)		
	Studium Generale e.g. Languages, Soft Skills, Teaching Assistance Work, Organisational and Business Psychology (6 - 12 CP)				

Study Programmes

www.tu-darmstadt.de/studieren

hobit – Information fair for pupils

www.hobit.de

TUday – Info day for prospective students

www.tu-day.de

Online Self-Assessment

www.self-assessment.tu-darmstadt.de

Course Schedule

www.tucan.tu-darmstadt.de

Application and Admission for international students
(International Office)

www.tu-darmstadt.de/international

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

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Imprint

Publisher

President of TU Darmstadt

Editorial office

Zentrale Studienberatung und
-orientierung ZSB

Please fold here

Mechatronics Bachelor of Science

Mechatronik (MEC) (B.Sc.)



TECHNISCHE
UNIVERSITÄT
DARMSTADT



ZENTRALE
STUDIENBERATUNG
UND -ORIENTIERUNG



FACHBEREICH
MASCHINENBAU

et:it

Fachbereich
Elektrotechnik und
Informationstechnik

Design: DUBBEL SPÄTH, Darmstadt | Titelfoto: Gregor Schuster, Darmstadt

Brief Description

Mechatronics is an interdisciplinary branch of engineering at the interface of Mechanical Engineering, Electrical Engineering, and Information Technology. It addresses the development and production of integrated mechanical-electronic systems that automatically collect information and signals, use them to obtain new data, and transform it into forces and movements. Today, mechatronic systems are omnipresent – in the form of active chassis and security systems such as ABS, TCS, and ESP, in industrial robots or in the form of controls for large commercial aircrafts.

www.mechatronik.tu-darmstadt.de

Admission

For information on application deadlines please refer to
www.tu-darmstadt.de/international