

COURSE INFORMATION “Methods and Tools for Engineering Design”

 April 24th, 2017
  Stud.IP
  English
  2 SWS

What to expect?

Course participants gain a product comprehensive understanding of the development process of technical systems. They learn generally applicable practices as devices for planning, performing, and testing of development efforts, and basic methods for task clarification, for working on general solutions, and for defining product designs. Furthermore, they learn simple valuation methods for selecting solution variants, as well as, procedures for developing within your budget, and are enabled to apply these.

The course is organised by the two renowned TU9 scientists, Professor Thomas Vietor (Head of the Institute for Construction Technology at TU Braunschweig), and Professor Roland Lachmayer (Head of the Institute for Product Development and Tool Building at Leibniz Universität Hannover).

What are the course contents?

Chapter 1	Welcome to the Methods and Tools MOOC
Chapter 2	Engineering Design
Chapter 3	Systematic Design
Chapter 4	Methods and Tools in Engineering Design
Chapter 5	Modeling with Function Structures I
Chapter 6	Modeling with Function Structures II
Chapter 7	Design Catalogues
Chapter 8	Cost-efficient Design
Chapter 9	Project Management
	Exam (Braunschweig)

What are the requirements for participation?

Basic knowledge in construction and of machinery elements.

May I collect credit points with this course?

After successful attendance a certificate of participation may be acquired.

The online course is embedded in the current presence teaching for certain programs of study at Technische Universität Braunschweig and Leibniz Universität Hannover. For these relevant examination modalities are in effect.

In general, every student of a German university may participate in presence examinations in Braunschweig or Hannover. After successful attendance you may gain 5 ECTS. Please consider relevant regulations of each university/faculty and program of study!

Any questions?

For all questions concerning the MOOC “Methods and Tools for Engineering Design“, please contact a-k.bavendiek@tu-braunschweig.de.