



Tsinghua Double Degree Students 2018/19

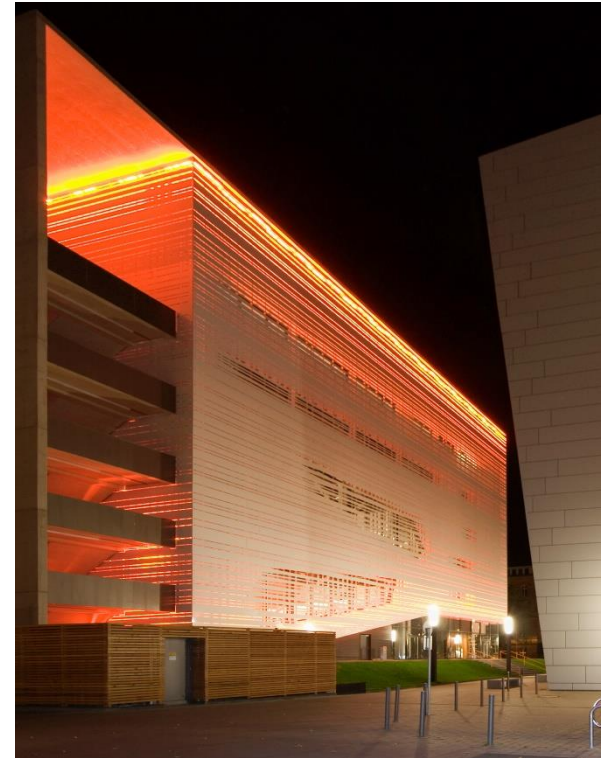
Rules, Regulations and Guidelines
at the Faculty of Mechanical Engineering

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Overview

- Degree Programs & Curricula at RWTH:
 - Production Systems Engineering
 - Automotive Engineering
- Exams, Regulations and RWTHonline
- The Mini Thesis
- Questions? Concerns?





Degree Programs and Curricula at RWTH

Production Systems Engineering & Automotive Engineering

Curriculum: Production Systems Engineering (PSE)

Curriculum Tsing Hua Program - PSE Track - as of 2014

	Subject	Professor	RWTH Aachen						Tsing Hua	Tsing Hua
			1. Sem. (WS)			2. Sem. (SS)			3 Sem. (WS)	4. Sem. (SS)
			Lec.	Ex.	Cr.	Lec.	Ex.	Cr.		
Compulsory Sub.	Mechatronics and Control Techniques for Production Plants	Brecher	2	2	6					
	Quality Management	Schmitt	2	2	6					
	Gear and Transmission Technology	Klocke/Brecher	2	2	6					
	Manufacturing Technology II	Klocke				2	2	6		
	Welding & Joining Technologies I	Reisgen				1	1	6		
	Production Management B	Schuh				2	1	5		
Electives	Machine Tools	Brecher	2	2	5					
	Technical Electives (5 credit points)				5					
Mini Thesis	Mini Thesis*							9		
	German Language Course		2	2	6					
	Master Thesis									
					34			26		
	Non-curricular German Language Course					2	2	6		

Elective and Compulsory Courses + Master's Thesis

Possible Elective Subjects	Professor	Cr.	Semester
Advanced Software Engineering	Jeschke	5	WS
Factory Planning	Kampker	6	SS
Industrial Logistics	Stich/Schuh	5	SS
Machine Design Process	Feldhusen	5	WS
Modeling, Model Red. & Sim. In Laser Processing I & II	Schulz	5+5	SS/WS
Multi Body Dynamics	Corves	6	SS
Process Chains for Application of Complex Opt. Comp.	Klocke	3	SS
Production Metrology	Schmitt	5	SS
Tribology	Jacobs	5	WS
Control Engineering	Abel	3	WS

5 credits need to be collected

Curriculum: Automotive Engineering (AE)

Curriculum Tsing Hua Program - AE Track - as of 2014

	Subject	Professor	Tsing Hua			RWTH Aachen						Tsing Hua	Tsing Hua	
			Prerequisites*			1. Sem. (WS)			2. Sem. (SS)			3 Sem. (WS)	4 Sem. (SS)	
			Lec.	Ex.	Cr.	Lec.	Ex.	Cr.	Lec.	Ex.	Cr.			
Tsing Hua	Automotive Engineering I*													
	Automotive Engineering II*													
	Mechatronic Systems in Automotive Engineering*													
	Fundamentals of Combustion Engines*													
Compulsory Sub.	Processes and Principles for Lightweight Design	Reimerdes/Feldhusen				2	2	6						
	Fundamentals of Fluid Power (Hydraulics and Pneumatics)	Murrenhoff				2	2	6						
	Automotive Engineering III	Eckstein				2	1	5						
	Electrical Drives and Storage Systems	Hameyer							2	1	5			
	Internal Combustion Engines I	Pischinger							2	2	6			
	Structural Design of Vehicles	Eckstein							2	1	5			
	Dynamics of Machines II	Corves							2	2	6			
	Alternative and Electrified Vehicle Propulsion Systems	Eckstein/Pischinger							2	1	5			
Electives	Technical Electives (7 credit points)							4					3	
Mini Thesis	Mini Thesis**							9						
	Masterthesis													
	Non-Curricular German Language Course					2	2	6	2	2	6			

Elective and Compulsory Courses + Master's Thesis

*Prerequisites: Knowledge to be acquired prior to arrival at RWTH

**Can be composed in either in the summer or in the winter term

Possible Elective Course Modules		
Applications of Laser Technology	Poprawe	6
Foundations of Finite Element Methods	Itskov	5
Automotive Engineering - Practical Course I & II	Eckstein	6
Quality Management	Schmitt	6
Tribology	Jacobs	6
Internal Combustion Engines II	Pischinger	6
Vehicle Acoustics	Biermann	5
Control Engineering	Abel	4
Industrial Engineering, Ergonomics and Work Organisation	Schlick	5
Environmental Sustainability in Transport Engineering	Oeser	6
Mobility Research and Transportation Modeling	Vallée	6
Automotive System Evaluation	Schwalm	5

7 credits need to be collected

Elective Modules

What you need to know

- Elective modules can be chosen freely – we make a suggestion in this semester's schedule
- Electives can be taken in either semester – you do not have to stick to the suggestion in the curriculum and in your schedule for this semester, respectively!
- It is your responsibility to gather the needed amount of credits (5 for PSE students, 7 for AE students)



Questions or Concerns?



Exams, Regulations, and RWTHonline

Exams (I)

What you need to know

- Exams at RWTH are comprehensive – there are usually no „mid-terms“, take-home exams, projects etc. to achieve a good grade
- That means: Your performance on exam date is what counts!
- Exams take place once a semester
 - If you fail an exam, your re-try will take place in the next semester
 - Only after a failed (1st) re-try attempt will you be able to ask for an oral exam (if the regular exam was a written examination)
- Exams can be repeated twice

Exams (II)

Exam Registration (I)

- Exams are registered through your RWTHonline account
- Exam registration does not equal course registration
 - Course Registration: Access to e-learning platform L2P
- Exam registration deadlines are **NOT TO BE MISSED!**
 - (Pay attention to information regarding deadlines provided by your faculty!)
- You may cancel a registration up until 3 days before the exam date
 - The Central Examination Office (ZPA) explains how to do so [online](#)
 - Note: 3 days before the exam date
 - Example: Exam on September 30th → cancellation possible until September 26th, 11:59pm (the exam day itself does not count!)
- At all times, keep your e-mail confirmation that the registration was successful
 - Also: Check your exam registration account!

Exams (III)

Exam Registration (II)

- In case of sickness, a doctor's certificate must be submitted
 - If you feel sick *before* the exam starts: see the doctor and submit a doctor's certificate to the Central Examination Office (ZPA) on the very same day!
 - If you feel sick *after* the exam has started: see the doctor and submit a doctor's certificate that includes a „Befundtatsache“, an indication of your illness, to ZPA on the very same day!
 - If you feel sick after the exam was completed: see the doctor and submit a doctor's certificate that includes a „Befundtatsache“, an indication of your illness, and a reason why you did not feel sick before the exam concluded, to ZPA on the very same day!
 - Take ZPA regulations to the doctor's office to receive the correct attestation!

RWTHonline Website

- You will find course information, exam dates and more on RWTHonline:
<https://online.rwth-aachen.de/>
- Module handbooks („Modulhandbücher“) give comprehensive descriptions on particular courses in your program
- RWTHonline is used by students to create a digital schedule, register for courses and exams, and to cancel exam registrations



The Mini Thesis

Mini Thesis (I)

- A Mini Thesis is a research project that will take at least 200h to complete (to a maximum of 270h, depending on the project) (9 ECTS)
- A Mini Thesis needs to be arranged individually – we cannot allocate projects!
- How to arrange a Mini Thesis
 - Check www.maschinenbau.rwth-aachen.de for an overview on our research institutes
 - Identify research projects on their homepages and get in touch with the institute or
 - Check RWTH's [database](#) for available projects in our faculty
 - <http://www.rwth-aachen.de/cms/root/Studium/Im-Studium/Pruefungen-Abschlussarbeiten/~cmjw/Studien-und-Abschlussarbeiten/?showall=1>
 - Look for projects of the size of a bachelor's thesis or project work – BUT you have to discuss clearly with the supervisor whether the project can be reduced to the size of a Mini Thesis (especially a Bachelor Thesis is not equivalent to a Mini Thesis!)

Mini Thesis (II)

- A Mini Thesis can be arranged either in the summer or in the winter term, but must be completed by the time you leave Aachen
 - Make sure you look for available projects early on!
 - The project should be **at least 200 hours** long, but a **maximum of 270 hours**
- The Mini Thesis can be done externally (outside the faculty of Mechanical Engineering), but you then need to find an external AND an internal supervisor and the examination board needs to approve the topic (documentation sheet) **before you start your work**
- If you cannot find a mini thesis project at all, you are asked to complete further elective courses to a total of 14 ECTS (AE) or 16 ECTS (PSE) in the elective category
 - You **MUST** notify your home coordinator and us in this situation.



Questions or Concerns?

Have a great stay at RWTH!



Please check dates and information online

www.maschinenbau.rwth-aachen.de

Central Examination Office (Exam Regulations, Dates etc.)

Need Help or Advice? Get in touch!

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