

# 德国亚琛工大夏列营

## 名校冲击

参与课程学生有机会获得三张亚琛工大提供的官方证书，有利于学生专业背景提升，为申请全球名校增添竞争力。

## 辅助审核

让学生的整体留学规划更加完整立体，面对审核官时拥有更多的底蕴和自信。

## 留德体验

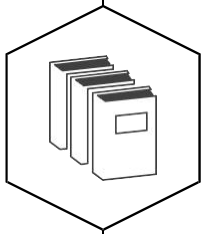
感受真实的留学生活，与亚琛工大教授和学生共同学习与交流，为今后的留学之路夯实地基。



### 课程地点：

亚琛工业大学

食宿均与当地大学生同标准



### 课程内容（二周）：

机械电子与机器人系统工程

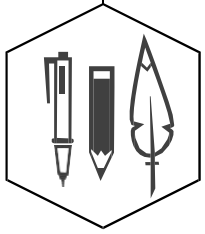
敏捷创新：产品设计与工程



### 出行保障：

签证为C类商务签证

全程包含课程、住宿、保险、早午餐及接机等境外服务



### 多元学习：

课外安排丰富的城市文化及中德学生交流活动



Teilnahmebescheinigung  
Certificate of Participation

Name [REDACTED]

Organization

- Institute of Mechanism Theory, Machine Dynamics and Robotics (IGMR)
- Institute for Theoretical Information Technology (TI)
- Chair and Institute for Engineering Design (ikd)

Title of Certificate **RWTH Aachen University Winter School in  
"Mechatronic and Robotic Systems Engineering"**

Date 19 February to 2 March 2018

Workload 60 h


Topics

- Introduction to Course Content: Mechatronics and Robotics
- Mechatronics and Robotics: Lecture and Exercises
- Information Theory and Systematic Design of Communication Systems
- Fundamentals of Mechatronic Systems Engineering
- Case Study: Mechatronic Product Innovation
- Intercultural Workshop



Aachen, 2 March 2017

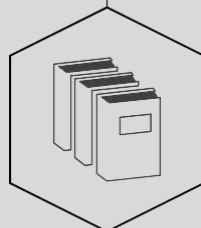
  
Dr. rer. oec. Helmut Dinger  
Managing Director  
RWTH International Academy gGmbH

  
Univ.-Prof. Dr.-Ing. Dr. h. c. (JPT) Burkhard Corves  
Head of Institute  
Institute of Mechanism Theory, Machine Dynamics and Robotics (IGMR)  
RWTH Aachen University



### 背景提升:

可获得最多三张亚琛工大提供的全欧洲认可参与证书、行政证书和成绩证书，提升学员的背景竞争力，在申请学校时脱颖而出。



### 备战审核:

为留学德国做准备。相关的经历及体验让学员在APS审核考试中更具说服力，帮助学生顺利通过审核。



### 大学体验:

提前感受德国大学环境及学习生活，让学生明确自己的留学选择和方向。

曾参加项目学生获得亚琛工大短期课程参与证明



## 专业课程学习






机械电子与机器人、机器人与机械电子、  
机电系统工程基础、信息论与通信系统的系统设计、  
机械电子产品创新



## 多元文化体验

城市导览及介绍、远足和拓展活动、跨文化交流  
研讨会、亚琛工大学生交流见面会

# Week I: Mechatronic Systems Engineering and Product Innovation – Tentative Weekly Schedule

| Time          | Sunday 18 <sup>th</sup> August   | Monday 19 <sup>th</sup> August  | Tuesday 20 <sup>h</sup> August                  | Wednesday 21 <sup>st</sup> August  | Thursday 22 <sup>nd</sup> August  | Friday 23 <sup>rd</sup> August                                    | Saturday 24 <sup>th</sup> August                      |  |
|---------------|--|---|---|--|---|---|---|--|
| 8:00 - 8:30   | Individual Arrival of Participants<br><br>Pick-up at Aachen Hbf Train Station<br><br> |   |   |  |   |   | Free Time for Excursions, Sight-Seeing and Self-Study |  |
| 8:30 - 9:00   |  |   |   |  |   |   |   |  |
| 9:00 - 9:30   |  | Pick up at Residence  | Mechatronics and Robotics: Lecture and Exercise | Fundamentals of Mechatronic Systems Engineering  | Information Theory and Systematic Design of Communication Systems                                       | Information Theory and Systematic Design of Communication Systems |   |  |
| 9:30 - 10:00  |  |   |   |  |   |   |   |  |
| 10:00 - 10:30 |  | Welcome Orientation<br>                            |   |  |   |   |   |  |
| 10:30 - 11:00 |  |   |   |  |   |   |   |  |
| 11:00 - 11:30 |  |   |   |  |   |   |   |  |
| 11:30 - 12:00 |  |   | Lunch Break at "Mensa Vita"                     |  |   |   |   |  |
| 12:00 - 12:30 |  |   |   |  |   |   |   |  |
| 12:30 - 13:00 |  |   |   |  |   |   |   |  |
| 13:00 - 13:30 |  |   |   |  |   |   |   |  |
| 13:30 - 14:00 |  |   |   |  |   |   |   |  |
| 14:00 - 14:30 |  | Get to know Aachen: Summer School „City Rally“<br> | Mechatronics and Robotics: Lecture and Exercise | Fundamentals of Mechatronic Systems Engineering  | RWTH Campus Tour<br> | Free Time for Self-Study  |   |  |
| 14:30 - 15:00 |  |   |   |  |   |   |   |  |
| 15:00 - 15:30 |  |   |   |  |   |   |   |  |
| 15:30 - 16:00 |  |   |   |  |   |   |   |  |
| 16:00 - 16:30 |  |   |   |  |   |   |   |  |
| 16:30 - 17:00 |  |   |   |  |   |   |   |  |
| 17:00 - 17:30 |  |   |   |  |   |   |   |  |
| 17:30 - 18:00 |  |   |   |  |   |   |   |  |
| 18:00 - 18:30 |  |   |   |  |   |   |   |  |
| 18:30 - 19:00 |  |   |   |  |   |   |   |  |
| 19:00 - 19:30 |  |   |   |  |   |   |   |  |
| 19:30 - 20:00 |  |   |   | Summer School BBQ<br> |   |   |   |  |
| 20:00 - 20:30 |  |   |   |  |   |   |   |  |
| 20:30 - 21:00 |  |   |   |  |   |   |   |  |
| 21:00 - 21:30 |  |   |   |  |   |   |   |  |
| 21:30 - 22:00 |  |   |   |  |   |   |   |  |

# Week II: Mechatronic Systems Engineering and Product Innovation – Tentative Weekly Schedule

| Time          | Sunday 25 <sup>th</sup> August                        | Monday 26 <sup>th</sup> August             | Tuesday 27 <sup>th</sup> August            | Wednesday 28 <sup>th</sup> August          | Thursday 29 <sup>th</sup> August | Friday 30 <sup>th</sup> August | Saturday 31 <sup>st</sup> August     |
|---------------|---|--|--|--|----------------------------------|--------------------------------|--------------------------------------|
| 8:00 - 8:30   | Free Time for Excursions, Sight-Seeing and Self-Study |  |  |  |                                  |                                |                                      |
| 8:30 - 9:00   |   |  |  |  |                                  |                                |                                      |
| 9:00 - 9:30   |   | Case Study: Mechatronic Product Innovation | Case Study: Mechatronic Product Innovation | Case Study: Mechatronic Product Innovation | City Excursion to Maastricht     | Free Time for Self-Study       |                                      |
| 9:30 - 10:00  |   |  |  |  |                                  |                                |                                      |
| 10:00 - 10:30 |   |  |  |  |                                  | Final Exam                     |                                      |
| 10:30 - 11:00 |   |  |  |  |                                  |                                |                                      |
| 11:00 - 11:30 |   |  |  |  |                                  |                                |                                      |
| 11:30 - 12:00 |   |  |  |  |                                  |                                |                                      |
| 12:00 - 12:30 |   | Lunch Break at "Mensa Vita"                |  |  |                                  | Lunch Break at "Mensa Vita"    |                                      |
| 12:30 - 13:00 |   |  |  |  |                                  |                                |                                      |
| 13:00 - 13:30 |   |  |  |  |                                  |                                |                                      |
| 13:30 - 14:00 |   |  |  |  |                                  |                                |                                      |
| 14:00 - 14:30 |   | Case Study: Mechatronic Product Innovation | Case Study: Mechatronic Product Innovation | Case Study: Mechatronic Product Innovation | City Excursion to Maastricht     | Summer School Closing Ceremony | Individual Departure of Participants |
| 14:30 - 15:00 |   |  |  |  |                                  |                                |                                      |
| 15:00 - 15:30 |   |  |  |  |                                  |                                |                                      |
| 15:30 - 16:00 |   |  |  |  |                                  |                                |                                      |
| 16:00 - 16:30 |   |  |  |  |                                  |                                |                                      |
| 16:30 - 17:00 |   |  |  |  |                                  |                                |                                      |
| 17:00 - 17:30 |   |  |  |  |                                  |                                |                                      |
| 17:30 - 18:00 |   |  |  |  |                                  |                                |                                      |
| 18:00 - 18:30 |   |  |  | Study at RWTH "Info-Event"                 |                                  |                                |                                      |
| 18:30 - 19:00 |   |  |  |  |                                  |                                |                                      |
| 19:00 - 19:30 |   |  |  |  |                                  |                                |                                      |
| 19:30 - 20:00 |   |  |  |  |                                  |                                |                                      |
| 20:00 - 20:30 |   |  |  |  |                                  |                                |                                      |
| 20:30 - 21:00 |   |  |  |  |                                  |                                |                                      |
| 21:00 - 21:30 |   |  |  |  |                                  |                                |                                      |
| 21:30 - 22:00 |   |  |  |  |                                  |                                |                                      |