

## REQUIREMENTS

Undergraduate degree in engineering or in science with above average results, profound knowledge in electronics, proven proficiency in the English language, postgradual professional experience of one year in general and intercultural competences.

## APPLICATION DEADLINES

Application deadline for winter semester: **June, 30<sup>th</sup>**

Application deadline for summer semester: **October, 31<sup>st</sup>**

[www.hs-coburg.de/aims](http://www.hs-coburg.de/aims)

## PROGRAM START:

**Winter semester** (September, 15<sup>th</sup>) in Coburg

**Summer semester** (February, 24<sup>th</sup>) in Shanghai  
(for Chinese students only)

## STRUCTURE OF THE PROGRAM

Four semesters of study, among them one semester in Coburg and one at USST in China, a practical internship phase in a company, summer school sessions with experts from industry and a final semester for master thesis preparation, 120 credits in total.

## TUITION FEES

3500 Euros per semester (except USST exchange students)

## CONTACT

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### Director of the study program

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### Project coordinator

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[www.hs-coburg.de/aims](http://www.hs-coburg.de/aims)



**ANALYTICAL INSTRUMENTS,  
MEASUREMENT AND  
SENSOR TECHNOLOGY (AIMS)**

Master of Engineering (M.Eng.)



## IN A NUTSHELL

Study course:	Analytical Instruments, Measurement and Sensor Technology - AIMS
Degree:	Master of Engineering (M.Eng.)
Program structure:	4 semester fulltime, 120 credit points (ECTS)
Accreditation:	accredited in June 2011 by ASIIN
Program start:	winter- and summer semester
Requirements:	degree in engineering or natural sciences with above average marks, one year of professional work experience after graduation, electronic skills, proven knowledge in the English language, basic German knowledge is appreciated
Internet:	<a href="http://www.hs-coburg.de/aims">www.hs-coburg.de/aims</a>

### IDEA OF THE PROGRAM

Sensor technology as a key technology has growing importance in modern industries. Companies are searching for qualified employees in this field. In combination with international experience - one study semester takes place in Shanghai - your curriculum will be enhanced not only with profound knowledge but also with important soft skills.

✕ COBURG, GERMANY

✕ SHANGHAI, PR CHINA



## SPECIALTIES

AIMS is combining the specialties of two universities: University of Coburg as a specialist in sensor technology with its Institute of Sensor and Actuator Technology and University of Shanghai for Science and Technology (USST) as a well-established and full-fledged multidisciplinary university with the College of Optical, Electrical and Computer Engineering as our partner.

The program is oriented internationally and open to German, Chinese and international students. German or Chinese language proficiencies are not required for the lectures, all courses are taught in the English language. In order to provide basic communication skills, German and Chinese language courses are integrated in the curriculum.

## CURRICULUM

MODULE	CREDITS	SEM.
<b>SHANGHAI</b>		
• Photoelectric Detection	6	I
• Nanometrology	6	
• Digital Signal Processing	6	
• Electives e.g. Automotive Electronics, Medical Imaging Technology	6	
• German   Chinese language	6	
<b>Total</b>	<b>30</b>	
<b>COBURG</b>		
• Mathematical Data Analysis	6	II
• Computer Based Measurement Technology	6	
• Sensor Technology	6	
• Electives e.g. Flow Measurement in Waste Water Systems, Chemical Sensors, Risk of Investment in Emerging Technology, Methods of Instrumental Analysis, Microacoustic Sensors, Microoptical Sensors	6	
• Chinese   German language	6	
• Summer school	6	
<b>Total</b>	<b>36</b>	
<b>PRACTICAL INTERNSHIP</b>		
• in China for German students, in Germany for international students	18	III
• Electives e.g. Design of Experiments, Computer Simulation of Sensors, Scientific Documentation and Reporting	6	
<b>PROJECT WORK AND MASTER THESIS</b>		
in industry or in a research institute according to the choice of the student	30	IV
<b>TOTAL</b>	<b>120</b>	

## COBURG AND SHANGHAI

Coburg and Shanghai are two very different cities. Whereas Coburg is a small town situated in the middle of Germany, Shanghai is one of the biggest cities in the booming east of China. AIMS will enable you to get to know both cities, learn about different habits and cultures and get an impression about what it means to work e.g. for a global player.

## NEW JOB PERSPECTIVES

Part of our graduates stay in Germany and are working here, others go back to their home countries and start to work in a company or a research institute there. Some particularly qualified graduates joined a PhD program after finishing AIMS.

