



## Certificate of Advanced Studies (CAS)

# Systems and Software Engineering



»The CAS 'Systems and Software Engineering' is designed to equip you with the essential skills and knowledge to thrive in today's rapidly evolving technological landscape. Focusing on systems level in the automotive sector, this program will enable you to use methods and tools to shape the future.«

**Program Director Prof. Dr.-Ing. Eric Sax**

Institute for Information Processing Technology, KIT

<b>THIS TRAINING IS FOR</b>	<b>PROFESSIONALS</b>	who want to upgrade their skills, or career changers
	<b>ORGANIZATIONS</b>	that want to equip their employees with the latest knowledge and skills to manage mobility transformation processes
<b>YOUR BENEFITS</b>	<b>SYSTEMS PERSPECTIVE</b>	Improve skills through an integrative, systemic understanding
	<b>QUICK WINS</b>	Short training units accelerate the integration of knowledge into your organization
	<b>SUSTAINED SUCCESS</b>	Acquire skills and methods to drive innovation in the mobility innovation sector
	<b>MOBILITY HUB</b>	Access to cutting-edge research in Karlsruhe and at the KIT
<b>KEY FACTS</b>	<b>CERTIFICATE</b>	KIT Certificate of Advanced Studies with 10 ECTS points (upon exam completion)
	<b>LANGUAGE</b>	English or German (upon request)
	<b>ADMISSION REQUIREMENTS</b>	First academic degree (e. g. Bachelor, Master or Diploma) in a relevant subject, professional experience, English language proficiency
	<b>LOCATION</b>	HECTOR School of Engineering and Management   Schlossplatz 19   76131 Karlsruhe
	<b>COSTS</b>	€ 5,970* for the entire CAS program

\*The CAS are exempt from value added tax (VAT).

## Structure of the CAS

## Systems and Software Engineering

**Start Date: November 2025**

A Certificate of Advanced Studies (CAS) contains 10 ECTS points and consists of eight trainings in four steps.

### Step 1

Four Days

**Fundamentals of  
Systems Engineering**

**Embedded Systems  
Development  
(Case Study)**

### Step 2

Four Days

**Control Systems  
Development**

**Modeling and  
Simulation**

### Step 3

Four Days

**Model-Based  
System Engineering  
(Case Study)**

**Sustainable  
Engineering**

### Step 4

Four Days

**Software  
Engineering**

**Discrete-Event  
Systems Simulation**



**Your contact for further questions:**

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[www.hectorschool.kit.edu/  
Systems-and-Software-Engineering.php](http://www.hectorschool.kit.edu/Systems-and-Software-Engineering.php)

**HECTOR SCHOOL**

ACADEMY OF FURTHER EDUCATION

*All indications are subject to change.*