Executive Education for Engineers
Part-Time Master’s Programs & Certificate Courses
Technology & Management Know-How
Quality Made by the Karlsruhe Institute of Technology (KIT)

**Technology Business School of the KIT**
The Karlsruhe Institute of Technology (KIT) is the largest institution for research and education in Germany. Globally known for its technology expertise in German engineering, KIT is famous for its research, excellent scientific education, lifelong learning, comprehensive advanced training, and a sustainable culture of innovation.

**Continuous Education on the Highest Academic Level**
The HECTOR School is the Technology Business School of the KIT named after Dr. Hans-Werner Hector, one of the co-founders of SAP AG. The school endeavors to provide professionals with state-of-the-art technology expertise and management know-how in part-time education formats. With Executive Master Programs, Certificate Courses, and Customized Partner Programs, the HECTOR School fosters lifelong learning approaches of its industry partners and the executive development of its graduates.

**Your Success is Our Vision**
The HECTOR School strives for sustainable and continuous education on the highest academic level, building on more than 10 years of experience. The growing need for qualified engineers, computer scientists, and economists demonstrates HECTOR School’s vision: sustainable success of our graduates & their companies.

In times of transformation of entire business areas, whether through the possibilities of new digitalization technologies or the major social issues such as climate change and necessary CO₂ reduction, it is central for companies and employees alike to integrate needs-based training formats into the development strategy.

For more than 15 years, KIT’s HECTOR School has been a strong partner in bringing current topics from research to teaching for professionals at the highest level. It is important to us that you are able to combine your professional and academic challenges in the best possible way and that we make you fit for future technology decisions in your industry together with the necessary management skills.

Dr.-Ing. Judith Elsner
Managing Director HECTOR School

*Current rankings prove the quality of KIT, e.g.*
Executive Master of Science Programs Combining Engineering & Management Know-how

- Energy Engineering and Management
- Financial Engineering
- Information Systems Engineering & Management
- Management of Product Development
- Mobility Systems Engineering & Management
- Production & Operations Management

State-of-the-Art Technology Expertise in Compact Education Formats

- Customized Qualifications for Companies
- Adaptive Further Education Programs
- Module Selection
- Certificate Courses
- Management Impuls
- MBA Fundamentals Program

Executive Education @HECTOR School

1. Technology Transfer & Innovation
   - benefit from a comprehensive professional network of academicians and industry partners worldwide.

2. Power of Networks
   - management makes our programs unique and ensures long-term sustainability and competitiveness.

3. Management & Engineering
   - combined makes our programs unique and ensures long-term sustainability and competitiveness.

4. Part-Time Programs
   - allow for simultaneous work and study for participants and their companies.

1. 2. 3. 4. REASONS for the Technology Business School of the KIT

HECTOR SCHOOL
OF ENGINEERING & MANAGEMENT

Executive Master of Science Programs Combining Engineering & Management Know-how

- Energy Engineering and Management
- Financial Engineering
- Information Systems Engineering & Management
- Management of Product Development
- Mobility Systems Engineering & Management
- Production & Operations Management

HECTOR SCHOOL
ACADEMY OF FURTHER EDUCATION

State-of-the-Art Technology Expertise in Compact Education Formats

- Customized Qualifications for Companies
- Adaptive Further Education Programs
- Module Selection
- Certificate Courses
- Management Impuls
- MBA Fundamentals Program
A Strong Cooperation with Industry
Lifelong Learning Programs Stimulate Innovation and Competitiveness

Challenges for Industry
There are numerous challenges for the industry: A shortage of specialists and managers, demographic changes, globalization and working across time zones, permanent accessibility for customers, and the changing values and lifestyles of working people. These factors present companies with new challenges for ensuring long term employee retention and to attracting new talent.

Challenges for Employees
Companies today are subject to ever faster-moving change than they were just a few years ago. Markets are global, technologies in production, energy and automation are advancing constantly and at a rapid pace. This also means that professionals have to keep moving in order to remain attractive as employees. This implies not only always being up to date in one’s own specialist field, but also demonstrating flexibility and facing up to new demands.

Benefits for Industry and Employees
The solution to these modern challenges can be found in a lifelong learning approach in which professionals can optimize their skill set and utility through further education programs. Likewise, lifelong learning is a key factor for companies in human resource development and retention.

Technology Transfer & Innovation
Industries benefit from state-of-the-art research at the KIT. HECTOR School program participants are instructed at the highest academic level. They will act as interfaces between their companies and the KIT. The Master thesis is often the start of an intensive cooperation through joint innovation projects.

Management & Technology
Equipped with scientific methods and state-of-the-art knowledge in their field of technology expertise, combined with management and digitalization know-how, participants develop the creativity and innovative potential of their company. Furthermore, professionals prepare themselves for future career in executive positions.

Power of Networks
In times of global and cross-linked markets, a network of international peers is indispensable. The HECTOR School graduates will gain valuable contacts within KIT and an extensive professional network of alumni worldwide.

Part-Time Programs
The HECTOR School programs allow to gain high-level academic further qualification while being able to work at the same time. Due to the part-time approach, professionals can continue their challenging careers.
Further Training and Qualification of Employees Are Central Success Factors

»Digital transformation requires establishing a fundamental shift in strategy. It is imperative for all processes to integrate stakeholders into these dynamic processes. The further training and qualification of employees are central success factors driving this digital change.

As a partner, the HECTOR School provides valuable support in the continuous training of our employees and fosters technological know-how and innovative potential, ensuring for a successful internal and external digitalization.«

Klaus Helmrich
Chairman GEA Group Aktiengesellschaft
Executive Master of Science Programs
Cutting Edge Technology Combined with the Latest Management Expertise

Part-Time Master’s Programs for Professionals
Your Next Step in a Successful Career

Six Executive Master of Science Programs
The HECTOR School offers six part-time master programs designed for professionals in leading positions. The Master’s programs differ from the typical MBA program as they combine management with engineering expertise. The primary goal is to enable professionals to take a holistic approach when managing highly interdependent processes. All programs are completed with a Master of Science degree from the Karlsruhe Institute of Technology (KIT).

Leadership Know-How for Engineers
All programs share five management modules providing the participants with general knowledge in finance, accounting, marketing, international multi-project management, international law, human resource management or innovation management. Therefore, they can forecast the commercial implications of project decisions.

Technology Expertise: More Than Just an MBA
In addition to the management modules, five engineering modules in each specialization convey state-of-the-art technology know-how and the methodology necessary to master the scope of new technologies.

Aquire Competencies to Succeed with Digitalization
Products, services and processes are translated into a digital representation – aiming higher productivity and efficiency. To fulfill this, corporate divisions are asked to develop a systematic and holistic approach for the increased use of digital components. All Master’s programs consider digitalization on a comprehensive level.

Part-Time Structure for Professionals
The academic calendar for the Master’s programs starts annually in October. It consists of 10 modules, each with a duration of 10 days. Intermittent periods of lectures are scheduled to allow participants to continue with their demanding careers whilst acquiring new skills.

All Master’s programs are taught in English. They are completed within approximately 20 months. Workshops and case studies provide ample opportunities to explore the direct applications of the module contents simulating a real business environment.

Master Thesis as an Innovation Project
The Master thesis allows participants to work independently, reflecting their own company's individual critical needs and their specific business environment. Companies and participants have the unique opportunity to establish innovation projects in the framework of a Master thesis. Through this, companies profit from an outstanding added value with consultation by KIT professors.

Read more:
Management Modules
Within all Master’s Programs

Big Picture Management Modules
Management is becoming increasingly complex and networked in data-driven companies (INFORMATION). Therefore, engineers and managers must obtain a holistic understanding of all corporate divisions to be able to make complex decisions (DECISIONS & RISK) in a future and result-oriented manner (INNOVATION & PROJECTS) from the perspective of the market (MARKETING), the employees (STRATEGY & PEOPLE), and the company (FINANCE & VALUE).

Co-Program Directors Management Modules

Prof. Dr. Stefan Nickel
Institute of Operations Research, KIT
Master’s Program EEM, MSEM, POM

Prof. Dr. Martin E. Ruckes
Institute of Finance, Banking, and Insurance, KIT
Master’s Programs FE, ISEM, MPD

Management Modules

- MM 1 Marketing & Information
- MM 2 Finance & Value
- MM 3 Decisions & Risk
- MM 4 Innovation & Projects
- MM 5 Strategy & People
Six Master of Science Programs (M. Sc.)

M.Sc. in Management of Product Development (MPD)
Agile Engineering of Mechatronic Systems

»Product development is the driver of innovation. In MPD, you learn to manage product development in an efficient, methodical, creative and success-oriented way. With the scientifically sound and practice-oriented training program for professionals, you become qualified to be the driving force for successful product innovation in your company.«

Prof. Dr.-Ing. Dr. h.c. Albert Albers
Institute of Product Engineering, KIT | Program Director MPD

Engineering Modules
- EM 1 Integrated Product Development by ASD – Agile Systems Design
- EM 2 Design & Validation Process and Information Systems for Product Development (PD)
- EM 3 Simulation and Target Values in PD
- EM 4 Validation and Verification in PD
- EM 5 Tools and Methods of Product Engineering

M.Sc. in Production & Operations Management (POM)
Global Production, Digital Transformation in Supply Chain Management and Logistics

»The design and operation of production systems and supply chains is undergoing a rapid change. Driven by new technology, as reflected by industry 4.0, the education of the past is no longer sufficient to guide companies through the changes. A master in POM equips participants with the necessary competences, bridging the gap between up-to-date theories and advanced technologies.«

Prof. Dr.-Ing. Kai Furmans
Institute for Material Handling & Logistics, KIT | Academic Director of the HECTOR School and Program Director POM

Engineering Modules
- EM 1 Collaborative Engineering in Production and Operations Management
- EM 2 Digital Engineering Ecosystems
- EM 3 Modern Operations Management for Supply Chain Networks
- EM 4 Networks of Supply & Production Systems
- EM 5 Global Production & Distribution Systems

M.Sc. in Mobility Systems Engineering & Management (MSEM)
E-Mobility, Autonomous Driving & Systems Engineering

»The Master Program MSEM offers a unique combination of courses in emerging technologies & systems engineering. Processes, methods and tools for the challenges of future mobility in e-drive, autonomous driving, communication-over-the-air, and worldwide release & configuration management are introduced on the engineering as well as on the management side.«

Prof. Dr.-Ing. Eric Sax
Institute for Information Processing Technology, KIT | Program Director MSEM

Engineering Modules
- EM 1 Processes, Methods & Tools of Systems Engineering
- EM 2 Systems Design
- EM 5 Systems Integration & Validation
- Specialization Advanced Driver Assistance Systems (ADAS)
- Specialization E-Mobility
- EM 3 Functions of ADAS
- EM 4 Components & Technologies of ADAS
- EM 3 E-Mobility: Political & Technical Framework
- EM 4 E-Mobility: Components & Technology
The energy transition is associated with many challenges, such as an increase in efficiency of energy conversion systems based on renewable energies and their integration into future energy systems. This requires e.g. the development of capable energy storage systems and an intelligent demand side management. EEM covers all these aspects and provides the skills to successfully face the challenges.

Building more accurate models reduces uncertainty around future events and paths the way to better decision making. A mix of broad decision-making applications, sound data and modeling work, paired with an entrepreneurial drive to solve innovation challenges using modern software and financial thinking makes Financial Engineering unique.

Digitalization enables new business models, creates new service opportunities and redefines existing products. This transforms our economy towards software realized added values in an unprecedented way. Hence, the capabilities of efficiently developing high quality software are becoming crucial for nearly all enterprises. In our Master’s program accordingly we concentrate on software engineering, software quality, in particular security, cloud service engineering and AI.
### Key Facts

**Part-Time Master’s Program, English-Taught, Duration of 20 Months**

### Program Structure
- Part-time, 10 x 2-week modules
- Duration of approx. 20 months
- Master thesis = project work in the company
- 5 Engineering and 5 Management Modules
- Teaching language: English
- Yearly program start: October

### Admission Requirements
- A first academic degree: e.g. Bachelor, Master or Diploma
- At least 1-2 years work experience (depending on the level of the first degree, recommended > 3 years)
- If English is not your mother tongue nor has it been the language of instruction for the last five years, language proficiency is required, e.g. test certificate (e.g. TOEFL score of at least 570 PBT, 230 CBT, 90 IBT or IELTs at least 6.5 points) or appropriate proof of C1 level.

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### Academic Degree

Master of Science (M.Sc.) from the KIT

### Accreditation

The KIT is system-accredited by AAQ. All HECTOR School master programs are accredited by the internal quality assurance system of the KIT.

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### Job-Compatible Format and an Ideal Work-Study Balance

**Part-Time, English-Taught, Duration of 20 Months**

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Job-Compatible Format and an Ideal Work-Study Balance

The academic calendar for each program starts annually in October. It consists of 10 modules, each with a duration of 2 weeks. All programs conclude with a master thesis.

**Crash Courses**

- **Start:** Nov 07–11, 2022: 5-day seminar in Selected Topics of “Electrical Engineering” or “Thermodynamics, and Fluid Mechanics”
- **Start:** Nov 11–12, 2022: 2-day seminar in “Probability and Statistics”

**Master Thesis ISEM, FE:** 6 months project work
**Master Thesis MPD, POM, MSEM, EEM:** 9 months project work

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**Project Work on Master Thesis**

<table>
<thead>
<tr>
<th>Start</th>
<th>Completion by</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 1, 2023</td>
<td>November 1, 2022</td>
</tr>
<tr>
<td>June 30, 2023</td>
<td>April 30, 2023</td>
</tr>
<tr>
<td>September 30, 2023</td>
<td>July 31, 2023</td>
</tr>
</tbody>
</table>

**Time Schedule Thesis**

You can start your thesis earliest after completing 8 modules. Latest start of your thesis is after your 10th module. The thesis must be completed after 6 months for ISEM and FE, and after 9 months for MPD, POM, MSEM and EEM.
International Orientation for Global Success
During your time at the HECTOR School, you will advance in the three dimensions of technology knowledge, management skills and personal development. In addition to the professional topics taught at the HECTOR School, the international environment plays an essential role. Grow professionally and interpersonally together with your fellow students. Experiences from working in different countries and industries and cross-cutting projects will enrich your use cases during your studies - and your entire future working life.

Experience the World Through Global Modules
To provide our participants with global relevant internationality and insights from experts in their field, some of the Master’s programs include a module abroad.

Get Insights Into the World’s Most Emerging Economy: China
Global production structures, mechanisms and networks are shaping more and more industries. China in particular is a gigantic and diverse market with enormous dynamism - but also full of its own challenges. At the KIT spin-off Global Advanced Manufacturing Institute (GAMI) in Suzhou Industrial Park, near Shanghai, participants of the Master’s program „Management of Product Development“ and „Production and Operations Management“ will have the opportunity to experience the development of industry 4.0 and AI.

Get Inspired by Innovations From the ESADE Business School in Spain
The Business School ESADE (Escuela Superior de Administración y Dirección de Empresas) in Barcelona is ranked among the best in Educational Experience, Entrepreneurship and Professional Development. In the Management Module „Corporate Innovation & Intrapreneurship“ of the Master’s programs „Energy Engineering and Management“ and „Mobility Systems Engineering and Management“, innovation is viewed as a holistic system. Participants benefit from the first-class innovation forge and grow even closer together through their stay in Spain.

Global Network of Industry Partner & Peers
HECTOR School participants come from all over the globe. This fosters intercultural exchange with other professionals. Due to the holistic approach HECTOR School participants share the management modules with peers from different industries and backgrounds. This guarantees a worldwide and interdisciplinary network lasting a lifetime.

After graduation, the HECTOR School offers a professional network with alumni activities, reaching from social media channels to alumni meetings in cooperation with exclusive industry partners.
Become a HECTOR School Master
Leadership Know-How for Demanding Careers

» I have lively memories of my application interview for the HECTOR School and Prof. Kai Furman’s promise: „We will make you push your limits.” An inspiring international environment, people from different industries and working fields, and the link to a state-of-the-art understanding of production and logistic systems provided me with a solid basis for the progression of my professional career. A challenging and enriching experience – promise kept! «

Stefan Oehmke
Master in Production & Operations Management
EVP Business Unit DRIVE Solutions at Vibracoustic SE & Co. KG

» Studying at the HECTOR School was exactly the right decision. Besides the studies themselves, the network makes the HECTOR School unique. Through the studies, new friendships have formed and even years later you have the opportunity to be connected through the alumni program and always meet new, exciting people. In the meanwhile, my co-workers are studying at the HECTOR School. «

Britta Daffner
Master in Information Systems Engineering and Management (former SME)
Practice Leader, Data & Technology Transformation at IBM
Customized lifelong learning solutions form one of the key competencies of the HECTOR School. Paradigm shifts in technology call for high-end trainings for engineers. Engineers in all industries need a regular update in state-of-the-art technology expertise to secure their personal career path as well as the future technology development of their companies.

The HECTOR School Academy addresses these needs and provides programs to equip employees with specialized training in their specific field.

Companies master the digital transformation with current know-how from a world class university. Further, small groups offer a strong knowledge growth and enhance team building.

With customized trainings for companies lifelong learning is settled. In addition, current scientific expertise in new technologies is taught in a practical way. This is implemented by means of didactics appropriate for adults.

Modern class rooms and living labs: Our further qualification programs combine theoretical and practical elements.

It is crucial to guarantee a high level of planning security for all participants in order to ensure that the demanding further qualification is compatible with the demanding professional environment.

The entire portfolio of the HECTOR School Academy is based on the currently relevant areas of energy, digitalization, industry 4.0 and mobility.

“The qualified colleagues are all very contented and dedicate themselves with great enthusiasm and motivation to their mostly new tasks. The imparting of the professional knowledge at the HECTOR School as well as the perfect organization took a major part in this. We also appreciate very much the constant and open exchange with the team.”

Dr. Philippe Gorse
Director Fuel Cell Solutions at Rolls-Royce Solutions GmbH
<table>
<thead>
<tr>
<th>Customized Qualifications</th>
<th>Adaptive Further Education Programs</th>
<th>Module Selection</th>
<th>Certificate Courses</th>
<th>Management Impuls</th>
<th>MBA Fundamentals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target Group</td>
<td>Companies that want to realign projects, teams and departments</td>
<td>Engineers, mechanical engineers, computer scientists</td>
<td>Engineers, mechanical engineers, computer scientists</td>
<td>Engineers, mechanical engineers, computer scientists</td>
<td>Upper management who are pursuing a PhD or having recently started their professional life</td>
</tr>
<tr>
<td>Duration</td>
<td>Customizable with a recommended 3-phase setup of 1-2 weeks per phase</td>
<td>2 days per course</td>
<td>2 weeks</td>
<td>3-5 days</td>
<td>1-2 days</td>
</tr>
<tr>
<td>Group Size</td>
<td>Customizable with a recommended 15-20 people</td>
<td>10-25 participants</td>
<td>5-25 participants</td>
<td>5-15 participants</td>
<td>5-10 participants</td>
</tr>
<tr>
<td>Language</td>
<td>English or German</td>
<td>English; individual company requests for lectures in German can be considered</td>
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</tr>
<tr>
<td>Certificate</td>
<td>KIT and HECTOR School certificate after participation. Exam and ECTS credits are available upon request</td>
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<td>Certificate from the Karlsruhe Institute of Technology (KIT), correlation: 1-3 ECTS</td>
<td>KIT and HECTOR School certificate after participation</td>
</tr>
<tr>
<td>Extensions</td>
<td>Master’s programs, Management Teaser</td>
<td>The courses are creditable to the corresponding master program</td>
<td>The courses are creditable to the corresponding master program</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Cost</td>
<td>Individual offer on request</td>
<td>850 EUR per participant per 2 day course</td>
<td>3,500 EUR per participant per module</td>
<td>2,495 EUR per participant per 3 day course 3,500 EUR per participant per 5 day course</td>
<td>Individual offer on request</td>
</tr>
</tbody>
</table>
Customized Qualifications for Companies

Companies and employees in the process of change
Through a forward-looking re-qualification of engineers, the HECTOR School Academy supports companies with the Customized Qualification program in the transformation process. It focuses on mastering challenges in the KIT areas of expertise: energy, information, and mobility systems. This bond ensures that the participants receive exclusive access to the latest trends in technology and innovation.

Companies are enabled to accelerate the change process with a customized further education approach. The targeted continuing education guarantees a high degree of planning security and a direct transfer into the company.

The HECTOR Schools close cooperation with industry guarantees that the methods taught out in the courses are relevant and pertinent to the needs of the modern workforce.

Topics
The industry is shifting in general – the HECTOR School Academy leads companies and their employees through these dynamic changes. Encounter solutions to modern day challenges in e-mobility, renewable energies, global production with Industry 4.0 components, and digital transformation.

Methodology
Intensive exchange with lecturers on specific technical topics, together with a classification of these topics into wider contexts to ensure high acceptance and learning success.

Structure
Most Customized Qualifications for Companies follow a three-phase approach: 2 to 3 weeks Basic, followed by 1 to 2 weeks Specialization can be finalized by the Master’s program for the experts (approx. 20 months).
Select courses that meet your professional development needs, in best complement your current skill set

Choose from courses such as driver assistance systems, e-mobility, digital services, autonomous robotics and more.

Understand autonomous and semi-autonomous vehicle systems and the challenges of intelligent systems. Experienced lecturers provide insights into future technologies of this current topic. Gain hands-on experience in our online platooning workshop to experience the latest mobility concepts while learning how to integrate software to control vehicle systems or how to set up an autonomous test drive.

Module Selection

Customize your learning experience through selectable modules

Through two week modules participants acquire the latest knowledge on exactly the topics that interest them. Select individual modules from a Master’s degree program and quickly acquire the skills and competencies you need.

38 topics are available to you!

- **Five topics from Management:**
  - Marketing & Information, Finance & Value
  - Decisions & Risk, Innovation & Projects, Strategy & People

- **Five topics from Production and Operations Management:**
  - Collaborative Engineering in Production and Operations Management,
    - Digital Engineering Ecosystems, Operations Research: Decision Making with Discrete and Nonlinear Models,
    - Networks of Supply and Production Systems, Global Production and Distribution Systems

- **Six topics from Information Systems Engineering:**
  - Digital Platforms, Software Engineering,
    - Process & Knowledge Engineering, Security & Privacy Engineering,
    - Digital Services, Autonomous Robotics

- **Five topics from Financial Engineering:**
  - Digital Financial Markets, Financial Economics for Data Scientists,
    - Machine Learning for Data-Driven Decision Making,
    - Engineering Aspects of Financial Markets, Alternative Data and Machine Learning for Business Applications

- **Three topics from Mobility Systems Engineering:**
  - Processes, Methods and Tools of Systems Engineering,
    - Systems Design, Systems Integration and Validation

- **Two topics from Advanced Driver Assistance Systems (ADAS):**
  - Functions of ADAS, Components and Technology of ADAS

- **Two topics from E-Mobility:**
  - Political and Technical Framework, Components and Technology

- **Five topics from Energy Engineering:**
  - Engineering Principles, Renewables, Thermal Energy Conversion,
    - Electricity Generation & Energy Storage, Smart Networks & Energy Distribution, Energy Economics
Certificate Courses

Compact Part-Time Education Formats
In compact 3- to 5-day seminars, professionals get updated with technology expertise directly derived from the latest KIT research. On a high academic level and yet practically oriented, the Certificate Courses qualify engineering professionals in current technology issues. The seminars are offered in four highly topical fields of technology.

International Certificate Courses
In order to provide first-hand insights into specific technological environments and to foster intercultural exchange, the Certificate Courses are not only offered in Germany, but also at various international locations (e.g. in Suzhou/China).

Organized in cooperation with partner institutions worldwide, HECTOR School equips engineers with high-level special expertise. Current research know-how is conveyed to the participants by using a smart combination of lectures and case studies, either on- or off-site.

Exemplary Fields of the Certificate Courses:
The indicated courses serve as examples. The HECTOR School also offers customized seminars upon request and regularly updates the range of courses.

- **Industry 4.0**
  - Smart Manufacturing & Automation with Industry 4.0
  - Quality & Supplier Management in China
  - Systems & Software Engineering
- **Digitalization**
  - Internet of Things: Modern Network Infrastructures
  - Information & Knowledge Management
  - Digitalization of Service Systems
  - Data Science
- **Mobility**
  - Technology of Hybrid & Electronic Vehicles
  - Digital Signal Processing
  - Integrated Photonics
  - Charging & Energy Management
- **Energy**
  - Renewables Generation & Grid Integration
  - Battery Technology
  - Electrical Engineering

Management Impulse

Your challenges are our standards
With HECTOR School’s Management Impulse, it’s now easier to pioneer new technologies and bring employees along for the ride. By working with top researchers and experienced industry experts, we provide the latest updates in technology.

This is how we support executives to create the best possible technology change in their companies. What are the next challenges in the areas of energy transition, digital transformation, globalization, product innovation and automation? - And how do you solve them? With us, you become a thought leader in technology in your company and design your own roadmap.
MBA Fundamentals Program

For Researchers that want to boost their career with management expertise.

This compact MBA Program is characterized by its focus on participants with an natural sciences or engineering background. It provides research-oriented and scientific methods and a high level of flexibility.

Six of the seven units offered can be taken in any order and at any start. Each unit lasts five days and set current management issues in the context of present research and relate them to accepted business practices and solutions.

The units are designed to be taken parallel to the job. And for those who want to go further, the credit points for the MBA Fundamentals Program can be recognized internationally within full MBA programs.

18 ECTS
Choose 6 out of 7 units

Values
Financial Accounting, Fundamentals of Finance, Business Ethics

People
Management Accounting, Human Resource Management (HRM)

Operations
Operations Management

Markets
Marketing, Business Strategy or Decision Analysis

Information & Data Analytics
Designing Information Systems, Data Analytics

Entrepreneurship
Entrepreneurship, Patents, and Start-Up Companies

Projects
International Project Management

Optional
Intercultural Training

* The course Intercultural Training is not mandatory for the completion of the certificate and do not grant credits. However, participation is strongly advised when completing the full program.