



HEST SATISFACTION & WELLINGHASS TO HECCAMBRID

F. SEATISFACTOR & Statista

INDUSTRY 4.0 MASTER OF SCIENCE

< BUILD THE FUTURE />

TOT SOLUTION ARCHITECT ROBOTICS ENGINEER INDUSTRY 4.0 CONSULTANT CHIEF TECHNOLOGY OFFICER

Master the skills needed to navigate the complexities of industries of the future. Equip yourself with cutting-edge knowledge and hands-on experience for a successful career in the fourth industrial revolution.

Gain hands-on experience:

Our **project-based learning** concept with well known international companies will boost your career after graduation.

CONTACT US







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August-Bebel-Str. 26-53 14482 Potsdam (Germany) **Studio Babelsberg**



www.xu-university.com









MASTER EXPLAINED WHAT SKILLS YOU WILL GAIN

HARD& SKILLS

Strategic Insight

You will gain skills in strategy, technology, organizational and industrial development to successfully lead on IoT and Cyber-Physical Systems.

Smart Serivices and Smart Product Design

Create intelligent, user-centric solutions and innovative products by blending technology with design thinking

Leadership 4.0

Learn about leadership 4.0 centered on human-technology interactive ecosystems that blend Advanced Virtual technologies, IoT and AI.

Mastering Advanced Multi-Technology Applications

Explore advanced applications of multi-technologies within the industry 4.0 and IoT framework.



Prof. Dr. Filipe de Castro SoeiroProfessor for Industry 4.0

"In an era where technology and connectivity redefine industries, our M.Sc. in Industry 4.0 stands at the forefront, empowering the next generation of tech innovators and leaders to design and manage smart connected systems that can autonomously monitor, communicate and improve harnessing data, driving efficiency and sustainability to shape the future of smart cities, smart manufacturing, services automation and other smart industrial applications."

CHOOSE SPECIALIZATION

BECOME A LEADER IN SMART CITIES AND INTELLIGENT MANUFACTURING



INDUSTRY 4.0 FOR SMART CITIES

Explore opportunities in creating sustainable, digital smart cities through this module, which covers sustainable development and Industry 4.0 technologies. Key areas include Smart Mobility, Smart Living, and Smart Governance, along with the application of IoT, smart manufacturing, and intelligent resource management in urban settings.

ELECTIVE COURSES:

- SUSTAINABLE MODELS FOR SMART CITIES
- ADVANCED TECHNOLOGIES FOR SMART CITIES
- MANAGING SUSTAINABLE DEVELOPMENT GOALS IN **SMART CITIES**

ROBOTICS, AUTOMATION, AND INTELLIGENT MANUFACTURING

Dive into Robotics and Automation in Intelligent Manufacturing. This module provides essential knowledge on robotics, modular prototyping, and automation aimed at improving production and logistics. It includes practical applications in advanced robotics and automated manufacturing initiatives.

ELECTIVE COURSES:

- INTRODUCTION TO ROBOTICS AND AUTONOMOUS SYSTEMS
- ADDITIVE SUSTAINABLE MANUFACTURING
- ADVANCED TOPICS IN ROBOTICS, AUTOMATION, AND INTELLIGENT MANUFACTURING





INDUSTRY 4.0 SMART INDUSTRIAL APPLICATIONS

Learn to apply Industry 4.0 technologies to industrial challenges through project-based learning. The module covers smart services, AI, automation, and clean technologies, aiming to enhance industrial competitiveness and sustainability.

ELECTIVE

- MOBILE AND WEB APPLICATIONS FOR SMART SERVICES
- COURSES: MODERN TECHNOLOGY APPLICATIONS IN SMART INDUSTRIES
 - INDUSTRY 4.0 SUSTAINABILITY AND OPTIMIZATION INCLUDING RENEWABLE ENERGIES

AFTER GRADUATION FUTURE JOB OPPORTUNITIES

These are some of many jobs you can strive for after graduating with a Master of Science degree in Industry 4.0:



IOT SOLUTION ARCHITECT

You design and implement tailored IoT solutions, focusing on the architecture of connected devices, data flows, and network infrastructure. Your work ensures secure, scalable systems that enhance efficiency and foster innovation.

SMART FACTORY MANAGER

As a Smart Factory Manager (Industry 4.0), you drive the digital transformation and automation of production. You leverage technologies like IoT and AI to optimize processes, analyze data, and create an efficient, future-ready manufacturing environment.

CHIEF TECHNOLOGIE OFFICER (CTO)

The Chief Technology Officer (CTO) is responsible for overseeing the company's technology strategy, driving innovation, and aligning technology initiatives with business goals. As a key leader, the CTO manages tech teams, develops solutions to optimize operations, and ensures the company stays at the forefront of technological advancements.



Find more
Jobs on our
website



COURSE OF STUDIES

Semester 1	Semester 2	Semester 3	Semester 4	
Technology Monitoring 4.0	Industry 4.0 Strategy and Management	1st Elective as per 1st specialization* 5ECTS	2nd Elective as per 1st specialization*	
Smart Product Design 4.0	Smart Services 4.0	1st Elective as per 2nd specialization* 5 ECTS	2nd Elective as per 2nd specialization* 5 ECTS	
Big Data Analytics & OPP**	Smart Factory 4.0	Advanced Virtual Environments 5 ECTS	Master Thesis Set-up 5 ECTS	
New Leadership	Research Skills	Consulting Skills 5 ECTS	1	
Descriptive Analytics 5	Predictive Analytics ECTS 5 ECTS	Study Abroad or	Master Thesis	
Impact Data Management	Future Economics	Internship		

Core modules Interdisciplinary modules

Electives

** = Object oriented Programming

*Specializations (2 out of 3):

- · Industry 4.0 for Smart Cities,
- Robotics and Automation,
- Industry 4.0 Smart Industrial Applications

You will chose two areas of specialization to make your academic and professional profile even more distinct.

In each of your chosen areas, you will attend two modules to take a deep dive into the subject matter and learn about key concepts as well as practical application.



Period of study

4 semesters, 2 years

THIS IS XU

REAL PROJECTS



Our project-based learning concept with well **known international companies** will boost your career after graduation.

Watch













These electives provide a tailored learning experience that equips you with the knowledge and skills needed to excel in your chosen fields. It's about unlocking your full potential and shaping a brighter future.

Our **XU Career Service** will guide you to find internships, student jobs and to enhance your career opportunities after graduation.



FUNDING OPTIONS



More information We offer a bunch of possibilities to fund your study program in collaboration with our partners. Enjoy the full learning experience without any financial burden.

NEARBY BERLIN

STUDY IN POTSDAM Enjoy the metropolitan region of Berlin and the pristine city of Potsdam and discover our campus at the area of Studio Babelsberg.

BEST IN CLASS

Discover our campus with the latest tech **equipment** for the best learning experience in the world of digitalization.

At XU University you're not just a number, you'll be part of the XU family!

More information







STUDY FEES

For enrolments in Summer Term 2025 and Winter Term 2025/26 only!

Fees for EU students	monthly	Year	Full Program Fee
B.Sc. Digital Business and Sustainability	€ 625	€ 7.500	€ 22.500
B.Sc. Data Science and Al	€ 708	€ 8.496	€ 25.488
B.Sc. Industry 4.0 Management	€ 708	€ 8.496	€ 25.488
M.A. in Digital Transformation and Sustainability	€ 625	€ 7.500	€ 7.500
M.Sc. Data Science	€ 708	€ 8.496	€ 16.992
M.Sc. Industry 4.0	€ 708	€ 8.496	€ 16.992
Internat. MBA (60 ects)	€ 667	€ 8.004	€ 8.004
Internat. MBA (90 ects)	€ 667	€ 8.004	€ 12.006
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Special Fees for Non-EU students (only semester-wise payment option)	Semester	Year	Full Program Fee
B.Sc. Digital Business and Sustainability	€ 3.750	€ 7.500	€ 22.500
B.Sc. Data Science and Al	€ 4.248	€ 8.496	€ 25.488
B.Sc. Industry 4.0 Management	€ 4.248	€ 8.496	€ 25.488
M.A. in Digital Transformation and Sustainability	€ 3.750	€ 7.500	€ 7.500
M.Sc. Data Science	€ 4.248	€ 8.496	€ 16.992
M.Sc. Industry 4.0	€ 4.248	€ 8.496	€ 16.992
Internat. MBA (60 ects)	€ 4.002	€ 8.004	€ 8.004
Internat. MBA (90 ects)	€ 4.002	€ 8.004	€ 12.006

Regular Fees for Non–EU students (only semester–wise payment option)	Semester	Year	Full Program Fee
B.Sc. Digital Business and Sustainability	€ 5.500	€ 11.000	€ 33.000
B.Sc. Data Science and Al	€ 6.000	€ 12.000	€ 36.000
B.Sc. Industry 4.0 Management	€ 6.000	€ 12.000	€ 36.000
M.A. in Digital Transformation and Sustainability	€ 6.000	€ 12.000	€ 12.000
M.Sc. Data Science	€ 6.000	€ 12.000	€ 24.000
M.Sc. Industry 4.0	€ 6.000	€ 12.000	€ 24.000
Internat. MBA (60 ects)	€ 7.800	€ 15.600	€ 15.600
Internat. MBA (90 ects)	€ 7.800	€ 15.600	€ 23.400

Additional fees for students from EU	payment		
registration fee	€ 650	single payment	
semester ticket & access to sports program	€ 250* per semester	may increase depending on negotiations with VBB	
graduation fee	€ 750	single payment	
Additional fees for students from Non-EU	payment		
registration fee	€ 1.500	single payment	
monthly payment plan set up fee	€ 300	single payment	
semester ticket & access to sports program	€ 250* per semester	may increase depending on negotiations with VBB	
graduation fee	€ 750	single payment	

^{*}Fees may vary, depending on negotiations with VBB

