AI Project Management and IT Law & Compliance

KI-Projektmanagement · Anbieter: IU Akademie IU Internationale Hochschule

FÖRDERUNG & KOSTEN

Kurspreis: auf Anfrage

Förderfähig über: Bildungsgutschein

AZAV-zertifizierter Bildungsträger — Förderung durch die Agentur für Arbeit möglich

Kursdaten auf einen Blick

Durchführung	Online
Lernformat	Self-Paced
Dauer	6 Monate in Vollzeit oder 12 Monate in Teilzeit
Unterrichtssprache	Deutsch, Englisch
Kursstart	Startet alle 14 Tage
Vorkenntnisse	Keine Vorerfahrung
Abschluss	Zeugnis auf Hochschulniveau
Inklusive	Berufscoaching, Notebook / Tablet (geliehen)

Bildungsträger & Kontakt

IU Akademie IU Internationale Hochschule

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Kurs online ansehen

01 Kursbeschreibung

In einer sich ständig wandelnden digitalen Landschaft sind zukunftsweisende Technologien und rechtliches Know-how unverzichtbar. Du hast dieses Potenzial erkannt und viele Unternehmen ebenso. Um im Dunstkreis von künstlicher Intelligenz (KI), IT-Recht und Compliance zukunftsfähige Lösungen zu schaffen, brauchen sie zukünftig dich. Durch Deine Online-Weiterbildung AI Project Management and IT Law & Compliance gestaltest Du die technologische Zukunft von Unternehmen, sicherst diese rechtlich ab und machst Deine Expertise in KI, IT-Recht und Compliance zum entscheidenden Erfolgsfaktor. In Deiner Online-Weiterbildung erwirbst Du fundiertes Wissen über die Geschichte und Anwendungsbereiche der KI, Expertensysteme, Neurowissenschaften und moderne KI-Systeme. Darüber hinaus lernst du, wie Du IT-Projekte effektiv organisierst, Kosten schätzt und kontrollierst sowie den menschlichen Faktor berücksichtigst. Du lernst auch, wie Du technische Projekte planst und durchführst. Zudem reflektierst Du über aktuelle gesellschaftliche als auch politische Auswirkungen der KI. Darüber hinaus erwirbst Du Kenntnisse über die Unternehmensführung von IT, Compliance und IT-Recht. Du lernst das COBIT-Framework kennen und beschäftigst dich mit IT-Grundschutz nach BSI und IT-Recht.

02 Lehrplan & Module

1. Artificial Intelligence

The quest for artificial intelligence has captured humanity’s interest for many decades and has been an active research area since the 1960s. This course will give a detailed overview of the historical developments, successes, and set-backs in AI, as well as current and future developments. In addition to these introductory topics, the course will explore the legal, social, and ethical responsibilities associated with the development and deployment of AI. The course will introduce principles of knowledge representation, ranging from the development and use of expert systems in early AI systems to knowledge graphs and semantic web technologies. In order to understand cognitive processes, the course will give a brief overview of the biological brain and (human) cognitive processes and then discuss how insights from human cognition inform the design and function of AI systems. Particular focus will be given to Artificial Neural Networks. Moreover, core technologies that drive modern AI applications will be introduced. Key areas of focus will include machine learning for data-driven improvement, natural language processing for understanding and generating human language, and computer vision for interpreting and making decisions from visual information. The course will give an overview of a wide range of AI use cases, ranging from creative content creation with Generative AI, to autonomous systems and robotics, to the role of AI in cybersecurity. The use cases will highlight the potential of AI across application areas and industries, such as autonomous driving, medicine, finance, retail, and manufacturing. For these use cases, the specific challenges related to the responsible use of AI will be discussed.
Kursinhalte
History and Future of AI Historical Developments
AI Winters
Notable Advances in Artificial Intelligence
Legal, Social, and Ethical Responsibilities in AI Development and Deployment
Knowledge Representation Overview of Expert Systems
Introduction to Logic and Prolog
Knowledge Graphs
Bridging Biology and Technology: Neuroscience, Cognition, and Neural Networks Neuroscience and the Human Brain
Cognitive Science
The Relationship Between Neuroscience, Cognitive Science, and Artificial Intelligence
Artificial Neural Networks
Core Technologies of Artificial Intelligence Machine Learning
Natural Language Processing (NLP)
Computer Vision
Applications of Artificial Intelligence Applications of Computer Vision
Natural Language Processing Use Cases
Creative Content Creation with Generative AI
Autonomous Systems & Robotics
Predictive Analytics
AI in Cybersecurity
Fakten zum Modul: Niveau: Master · Unterrichtssprache: English · 5 ECTS-Punkte · Modulprüfung: Klausur, 90 Minuten

2. IT Project Management

The purpose of this course is to introduce students to the concepts involved in IT project management. This is achieved through the development of an understanding of the fundamental tenets of project management enhancing the students' ability to apply their knowledge, skills and competencies in analyzing and solving IT project management problems. A special focus is put on the specifics of IT project organization, cost management and the human factor within IT projects.
Kursinhalte
Introduction: Characteristics of IT Projects Defining IT Projects
Overview on Typical Roles and Phases of IT Projects
Risks and Challenges of IT Projects
Role of an IT Project Manager
Organizing the Work Project Breakdown Structure, Work Packages
Prioritization
Time Planning, Milestones, Gantt Charts
Definition of Done
Cost Estimation and Controlling Challenges of Cost Estimation in IT Projects
Estimation Techniques: 3-Point Estimation, Double Blind Expert Estimation, Function Points
Cost Controlling Using Earned Value Analysis
Risk Management
The Human Factor Vision Keeping
Stakeholder Management
Conflict Management
Organizing Small and Medium Projects Rational Unified Process (RUP)
Agile Software Processes
Scrum
Plan-driven Project Management in Small Projects
Organizing Large Projects PMBOK Guide
Prince2
Multi Project Management
Agile Software Processes in Large Projects
Selection of the Appropriate Project Management Method
Fakten zum Modul: Niveau: Master · Unterrichtssprache: English · 5 ECTS-Punkte · Modulprüfung: Klausur, 90 Minuten

3. Project: Technical Project Planning

The focus of this course is to apply the project management knowledge gained previously in a practical portfolio project and reflect on the results. Students engage in this portfolio project and document the results, reflecting on the project management concepts they apply and the influence of these concepts on the success of the project.
Kursinhalte
In this course, students perform and document a portfolio project in which they apply the project management topics covered in previous modules.
Fakten zum Modul: Niveau: Master · Unterrichtssprache: English · 5 ECTS-Punkte · Modulprüfung: Portfolio

4. Seminar: AI and Society

In the current decade, impressive advances have been achieved in the field of artificial intelligence. Several cognitive tasks like object recognition in images and video, natural language processing, game strategy, and autonomous driving and robotics are now being performed by machines at unprecedented levels of ability. This course will examine some of societal, economic, and political implications of these developments.
Kursinhalte
The seminar covers current topics concerning the societal impact of artificial intelligence. Each participant must create a seminar paper on a topic assigned to him/her. A current list of topics is given in the Learning Management System.
Fakten zum Modul: Niveau: Master · Unterrichtssprache: English · 5 ECTS-Punkte · Modulprüfung: Seminararbeit

5. Corporate Governance of IT, Compliance, and Law

In this course, students learn terms and frameworks related to IT governance and IT compliance. First, a short introduction and an overview of the different aspects of IT governance and IT compliance are given; then, COBIT and IT basic protection are explained as two frameworks that are used in industrial practice. In addition, this course will introduce and discuss important legal frameworks and standards related to IT law.
Kursinhalte
IT Governance: Motivation and Challenges Governance and IT Governance
Frameworks for IT Governance
Typical IT Governance, Service Management, and Security Frameworks and Standards
COBIT Framework Overview of the Elements of COBIT
Governance and Management Objectives
Use of COBIT and COBIT Design Factors
The Target Cascade of COBIT
IT Compliance Introduction to IT Compliance
Examples of National and International Guidelines: Risk Management Standards and Frameworks
IT Compliance: Typical Measures
Basic IT Protection According to BSI Overview and Structure
Approach to IT Security Governance
Usage Example of IT Security Governance
Introduction to IT Service Management What is Information Technology Service Management?
What is ITIL® V4?
What is ISO/IEC 20000-1:2018?
Other ITSM Frameworks and Standards
IT Law Overview of Relevant Laws
Protection of Intellectual Property
IT Contracts
Privacy
Fakten zum Modul: Niveau: Master · Unterrichtssprache: English · 5 ECTS-Punkte · Modulprüfung: Klausur, 90 Minuten

6. International IT Law

This course presents in depth national and international legal framework conditions of information processing for companies. After an examination of the differences between international legal systems, an introduction is given to those legal constructs which serve as a basis for the development of IT-relevant legislation. Subsequently, areas of law are discussed from the perspective of concrete application-oriented business scenarios, such as contract law, licensing and patenting.
Kursinhalte
Introduction
General Concepts of Law
Areas of Law
International, Transnational and EU Law
Definition and Scope of IT Law
International, Transnational and European IT Law
Law in Cross-Border Systems
E-Business and E-Commerce
General Terms and Conditions of Business
Electronic Commerce
IT Contracts
Intermediaries and Platforms
Antritrust Law and IT
Intellectual Property
Basic Concepts of Intellectual Property
Copyright
Software Copyright and Software Licensing
Free and Open Licensing
Patenting of Software
Privacy and Data Protection
Basic Concepts of Privacy and Data Protection
European General Data Protection Regulation (GDPR)
Implementation Approaches of the GDPR
International Data Transfer
Information Security and Computer Crime
Information Security Law
Electronic Signatures and Digital Identities
Cybercrime
Online Media and Telecommunication
Basics of Online Media Law
Social Media and Freedom of Expression
Fundamentals of Telecommunications Law
Internet and Domain Law
Fakten zum Modul: Niveau: Master · Unterrichtssprache: English · 5 ECTS-Punkte

03 Enthaltene Zertifikate

Trägerzertifikat: Zeugnis auf Hochschulniveau

04 Voraussetzungen

Vorkenntnisse

Niveau: Keine Vorerfahrung

Zulassungsvoraussetzung: gute Deutschkenntnisse auf B2-Niveau.

Zugangsempfehlung: Englisch auf B2 Niveau

Die Weiterbildung ist auf dem inhaltlichen Niveau eines Master Studiengangs. Eine Weiterbildung auf Master-Niveau ist anspruchsvoller als auf Bachelor-Niveau. Vorhandenes Grundlagenwissen im gewählten Fachbereich ist deshalb von Vorteil.

Technische Voraussetzungen

Laptop mit Internetzugang.

05 Zielgruppen & Berufsperspektiven

- Arbeitssuchende
- Fachkräfte

Mögliche Berufsbilder: IT-Projektmanager, IT-Compliance Spezialist, KI-Compliance Manager

NÄCHSTER SCHRITT

Kursdetails online ansehen und Anbieter kontaktieren

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