



Co-funded by the European Union. The research leading to these results has received funding from EUonAIR has received funding from ERASMUS-EDU-2024-EUR-UNIV grant agreement 101177370.

The author is solely responsible for its content, it does not represent the opinion of the European Commission and the Commission is not responsible for any use that might be made of data appearing therein.

WP2 Deliverable D2.1 (online course catalogue)

This catalogue includes planned learning materials (OERs), courses (micro-credentials) and digital self-paced learning opportunities.

Type: R (Document, report)
Dissemination level: PU (Public, fully open)

v2	19.06.2025
----	------------

Domain	Sub-domain	School	Course Title	Short Description	Planned online release date of v1	planned first pilot	Course Format
Business	Economics	KU	Macroeconomics	This introductory course covers fundamental macroeconomic principles, including the measurement and analysis of GDP, inflation, unemployment, and the basic tools of monetary and fiscal policy. It is designed as a self-contained, preparatory module for students before they begin a standard university-level macroeconomics course.	Q1 2026	Q1 2026	Avatar-led
Business	Economics	KU	Microeconomics	This introductory course explains core microeconomic concepts such as supply and demand, consumer behavior theory, firm production and costs, and basic market structures. It serves as a comprehensive, self-contained primer intended for students prior to taking a standard university-level microeconomics course.	Q1 2026	Q1 2026	Avatar-led
Business	Entrepreneurship & Innovation	KU	Introduction to innovation management	This course introduces the basic principles and processes of managing innovation within organizations. Topics include models of innovation, managing the process from idea generation to implementation, and understanding organizational factors that influence innovation, serving as a foundational module for further study in the field.	Q4 2025	Q4 2025	Avatar-led
Business	Entrepreneurship & Innovation	KU	Startup Funding	This course provides an overview of the primary methods used to secure capital for startup ventures. It examines different funding sources and mechanisms, including bootstrapping, venture capital, angel investment, accelerator programs, crowdfunding, and grants, outlining the characteristics and typical uses of each.	Q4 2025	Q4 2025	Avatar-led
Business	Entrepreneurship & Innovation	KU	Introduction to Startup Management	This course introduces the Lean Startup methodology as a framework for developing new business ventures. Key concepts covered include developing Minimum Viable Products (MVPs), iterative development using the build-measure-learn cycle, customer discovery, and business model validation.	Q4 2025	Q4 2025	Avatar-led
Business	Entrepreneurship & Innovation	LSB	Technology and Innovation in Marketing	Explores how emerging technologies, such as AI, AR/VR, IoT, and blockchain, are reshaping marketing strategies, consumer experiences, and business models through innovation.	Q3/2025	Q3/2025	
Business	Entrepreneurship & Innovation	ESSCA	Digital Intrapreneurship	This online course explores digital intrapreneurship, which is the practice of driving innovation within an existing organization using digital tools, AI, and entrepreneurial thinking. Unlike traditional entrepreneurship (which focuses on starting new ventures), intrapreneurship leverages company resources to create value through internal initiatives, digital transformation, and AI-powered solutions.	Q1 2026	Q3 2026	Human + Avatar-led (online course)

Business	Finance	ZSEM	Financial Management	The course covers the fundamental theoretical concepts of modern finance; rate of return and stock evaluation; portfolio risk management; options evaluation; capital structure theory; value creation theory etc. Beside modern financial theory, the course also deals with modern corporate analysis of securities on primary and secondary capital markets, and financial structure. Special focus will be put on stock investment, bond investment and real estate. The goal of this course is, by using measures like spread, rating, credit worthiness, cost of capital, yield, maturity and financial risk, to show how it works in practice, both in European as well as in international capital markets, in order to enable students to successfully understand and use concepts of modern corporate finance. Furthermore, emphasis will be put upon financial engineering in such a way that the student acquires knowledge necessary for creating a financial model (with program support) using all relevant financial formulas, and implementing them in the analysis of accounting reports such as the balance sheet, profit and loss account, and cash flow, with the goal of calculating the rate of return of a specific investment (profitability index, NPV, IRR, etc) for the shareholders, and debt for the lenders.			Avatar-led
Business	Finance	UPRC	Sustainable Finance and ESG	The course objective is to introduce students to the main elements, products, and principles of sustainable finance and ESG indexes. The course explores how financial systems can support environmental protection, social equity, and strong governance. Key topics include the principles of sustainable finance, highlighting how investment decisions affect long-term societal outcomes. Students learn to assess ESG (Environmental, Social, and Governance) factors, understanding their relevance to corporate performance, investment risk, and valuation. The course covers the structure and methodology of major ESG indexes like MSCI, FTSE4Good, and DJSI, including how they guide investor choices and influence company behavior.	<	Q1 2026	Human-led (online course (TEAMS or Zoom)) and avatar-led
Business	Finance	ISM	Principles of Finance	The course objective is to introduce students to the main elements, methods and principles of finance. It will provide basic knowledge and skills applicable to personal and managerial finance. Course starts with a general overview of finance, introduces to financial concepts, instruments, and techniques used in financial decision making. The first part of the course focuses on basic financial data, financial statements, cash flows, also main financial concepts as time value of money, risk and return, interest rates. The second part of the course deals with financial management.			Human-led
Business	Finance	ZSEM	Principles of Financial Mathematics	The course provides an elementary but comprehensive introduction to quantitative modeling in the field of finance. Students will gain knowledge in asset pricing theory, fixed income instruments, financial derivatives, basic principles of hedging and study problems in financial practice that arise when analyzing investment strategies by means of risk-return tradeoff, differentiate between investments in fixed income instruments and risky assets, understand the principle of hedging risk and investing in a risk-free portfolio of assets and to justify the role of financial derivatives in financial intermediation.			Human-led
Business	Finance	UPRC	Financial Markets and Institutions	The course objective is to introduce students to the main elements, methods, and principles of financial markets and institutions. It will provide basic knowledge and skills applicable to understanding the structure, functions, and roles of financial systems. Course starts with a general overview of financial markets, introduces to key financial instruments, market participants, and regulatory frameworks. The first part of the course focuses on money markets, capital markets, and the roles of financial intermediaries. The second part of the course deals with the operation and management of financial institutions.	Q4 2025	Q1 2026	Human-led (online course (TEAMS or Zoom)) and avatar-led

Business	Finance	LSB	Projects in empirical finance	This course provides students with practical exposure to key areas of modern financial markets, including equity capital markets, debt capital markets, and portfolio optimization. It emphasizes the application of financial theories and valuation models using real-world data and hands-on tools such as Excel and Python. Through case studies and data-driven exercises, students will develop a deeper understanding of how financial instruments are priced, analyzed, and used in portfolio construction and corporate decision-making.	Q3/2026	Q1/2026	Avatar-led
Business	Management	UPRC	International Management of Mega Projects	The course objective is to introduce students to the main elements, methods, and principles of managing large-scale international projects. It will provide basic knowledge and skills applicable to the planning and execution of mega projects across borders. Course starts with a general overview of mega project characteristics, introduces to international project environments, stakeholders, and risk factors. The first part of the course focuses on feasibility analysis, cross-cultural management, and regulatory considerations. The second part of the course deals with strategic planning, resource allocation, and performance management in global mega projects.			Avatar-led
Business	Management	HHN	International Strategy Simulation	International strategic management provides future entrepreneurs and intrapreneurs with the key theories and analytical tools needed to craft, select and execute business- and corporate-level strategies in both domestic and international arenas. Blending interactive lectures, real-world case work and the TOPSIM Mastering Global Expansion simulation, the course guides students through rigorous environmental and internal analyses, option generation, decision-making and implementation. Two intensive teaching blocks—one on campus and one residential—foster cross-functional teamwork and reflective learning, while a portfolio of individual and group assignments ties theory to practice. Graduates leave able to diagnose strategic situations, integrate ethical and sustainability considerations, and communicate evidence-based recommendations to senior stakeholders.	Q4 2026	Q4 2026	Avatar-integrated
Business	Management	UPRC	Project Management	The course objective is to introduce students to the main elements, methods, and principles of project management. It will provide basic knowledge and skills applicable to managing projects across various industries. Course starts with a general overview of project life cycles, introduces to project planning, scheduling, budgeting, and risk management. The first part of the course focuses on defining project scope, setting objectives, and organizing project teams. The second part of the course deals with project execution, monitoring, control, and closing practices in alignment with industry standards and best practices.			Avatar-led
Business	Management	HTWB	AI & Smart Cities for Real Estate Management	This elective course introduces students to smart city concepts and urban data tools, showing how AI enhances real estate strategy, spatial intelligence, and sustainable development in digital urban environments.	Okt 25	Okt 25	Teaching videos, digital tool demonstrations, case-based activities, and final group project
Business	Management	KU	AI in Law	This course focuses on the application of Artificial Intelligence tools and techniques within the legal sector. It examines current and emerging uses of AI for tasks such as legal research, document review and analysis, contract management, e-discovery, and predictive analytics related to case outcomes.	Q1 2026	Q1 2026	
Business	Management	KU	AI in HR	This course examines the integration and impact of Artificial Intelligence within Human Resources management. It covers AI applications in areas including recruitment and talent acquisition automation, employee data analysis, performance management support, and workforce planning tools.	Q1 2026	Q1 2026	

Business	Management	KU	AI in Business	This course offers a general survey of Artificial Intelligence concepts and their applications across various business functions. It explores potential uses in areas such as process automation, data analysis for decision support, customer service interactions, and strategic planning, outlining the general business relevance of AI technologies.	Q42025	Q4 2025	Avatar-led
Business	Management	LSB	AI for business managers	Introduction to AI and its applications in business			Hands-on experience
Business	Management	HHN	Strategic Management	Teaching of classic core contents of corporate management Understanding of the interrelationships of corporate management Ability to apply central concepts and methods Transfer to application cases Actively addressing current corporate cases Getting to know the strategies of a large number of international companies	Q4 2026	Q4 2026	Avatar-led
Business	Management	LSB	AI & digital transformation	AI as enabler in digital transformation			Hands-on experience
Business	Management	LSB	AI Strategy and Business Transformation		Q3/2027	Q3/2027	Avatar-led
Business	Management	LSB	Managing AI Projects and Teams	Explores how AI reshapes business models and drives strategic transformation across industries.	Q3/2027	Q3/2027	Avatar-led
Business	Management	LSB	AI Strategy and Business Transformation	Covers the principles and practices of leading AI initiatives, including cross-functional collaboration, agile methods, and talent management.	Q3/2027	Q3/2027	Avatar-led
Business	Management	LSB	AI Ethics, Governance and Regulation	Examines the ethical, legal, and regulatory implications of AI deployment, emphasizing responsible innovation and compliance.	Q3/2027	Q3/2027	Avatar-led
Business	Management	LSB	AI in Marketing and Customer Analytics	Focuses on leveraging AI tools to enhance customer insights, personalization, and marketing effectiveness.	Q3/2027	Q3/2027	Avatar-led
Business	Management	LSB	AI for Operations and Supply Chain	Applies AI techniques to improve forecasting, logistics, and operational efficiency.	Q3/2027	Q3/2027	Avatar-led
Business	Management	LSB	AI in Finance and Risk Management	Analyzes the use of AI in financial decision-making, fraud detection, and risk modeling.	Q3/2027	Q3/2027	Avatar-led
Business	Management	LSB	Innovation Management with AI	Explores how AI can drive and support organizational innovation processes and product development.	Q3/2027	Q3/2027	Avatar-led
Business	Management	LSB	AI in Human Resources	Examines the application of AI and data-driven tools in HR for talent acquisition, workforce planning, employee engagement, and performance management, with attention to bias, fairness, and employee trust.	Q3/2027	Q3/2027	Avatar-led
Business	Management	LSB	Stablenomics: the role of stablecoins and CBDCs in macroeconomics	This short course investigates how private stablecoin business models generate fiscal externalities and monetary spillovers, and critically assesses whether central bank digital currencies (CBDCs) can resolve these tensions. You'll explore why "stable" coins often exhibit unstable dynamics, and uncover the incentive structures driving wallet providers to issue their own tokens. The primary aim of this course is to cultivate analytical reasoning, equipping learners to navigate and lead responsibly within a rapidly transforming financial landscape.	TBD	TBD	Avatar-led
Business	Professional Uses of AI	UAO CEU	Digital Industry Ecosystem	This course looks at the role of those industrial and professional sectors directly related to digitalisation. The course will reflect on the general question of digitalisation as an industrial field, and the industry type that results from innovative digitalising practices. The course connects these topics with entrepreneurship culture.	Q1/2027	Q1/2027	Self-paced online course with tool demonstrations, templates, and reflection prompts Workshop concept for hands-on training or team-based teaching development sessions Includes example workflows, prompts for teaching design, and a checklist for responsible AI use in course planning

Business	Technological Innovation	UAO CEU	Study of the latest trends and technologies in AI	This course provides a hands on analysis of new AI developments and trends. Based on the development of the continuously evolving and changing sector, the course provides an overview of trends and tendencies in order to prepare for potential future uses of AI.	Q1/2027	Q1/2027	Self-paced online course with tool demonstrations, templates, and reflection prompts Workshop concept for hands-on training or team-based teaching development sessions Includes example workflows, prompts for teaching design, and a checklist for responsible AI use in course planning
Business	Technological Innovation	UAO CEU	Innovation and Communication Project Management	The course presents different projects that integrate innovation as a central pillar. On the basis of different case studies, students develop their own innovation and communication project and provide strategies for their successful management.	Q1/2027	Q1/2027	Interactive workshop for higher education instructors (on-site or online) Accompanying self-paced online course for flexible, individual learning Includes a set of ready-to-use materials and a practical planning guideline for teaching with AI
Business + Engineering	Technological Innovation	UAO CEU	Emerging Technologies in AI	This course will work at the nexus of technological development from an infrastructural perspective, combined with the resulting potential uses of technological change. The course provides an integrative perspective for innovative technology use in social and professional practices.	Q1/2027	Q1/2027	lectures with online exercises
Communication	AI Design & Creativity	UAO CEU	Visualisation and Representation of Data	This course deals specifically with the visual representation of different data sets through simple models (infographics) and complex visual tools that help to connect data with different audiences and users.	Q1/2027	Q1/2027	Self-paced online course with tool demonstrations, templates, and reflection prompts Workshop concept for hands-on training or team-based teaching development sessions Includes example workflows, prompts for teaching design, and a checklist for responsible AI use in course planning
Computer Science	AI	SUPSI	Fundamentals of AI	Acquire basic knowledge on the fundamentals of AI, and know how the theory has been developed. Understand the motivations for designing intelligent machines. Understand and explain the concepts, principles, strengths and limitations of some of two of the main kinds of knowledge representation: the logic (symbolic) approach and Bayesian networks. Understand and apply some main algorithms for uninformed and heuristic search	Sep 27		3 synchronous hours, 1 asynchronous
Computer Science	AI	SUPSI	Probabilistic reasoning	This course provides an overview of the main decision-making techniques in problems affected by sources of uncertainty with the following objectives: • How to characterize the sources of uncertainty • How to make simple decisions under uncertainty • Acquire a unifying view of how to probabilistic reason over time	Feb 27		3 synchronous hours, 1 asynchronous
Computer Science	AI applications	UPRC	AI Applications in Biomedicine	The course offers a comprehensive understanding of how Artificial Intelligence is applied in medicine and human well-being, with a focus on improving healthcare outcomes such as disease diagnosis, personalized treatments, and patient care. Students will learn to apply AI algorithms, including neural networks and machine learning models, to utilize biomedical data in addressing complex medical challenges and enhancing healthcare delivery.	Q3/2026		3 synchronous hours, 1 asynchronous
Computer Science	Data Science	ISM	Applied Statistics	This course catapults student from zero knowledge of statistics to fluency in linear regression analysis, laying strong foundations of descriptive statistics, t-tests, Analysis of variance and correlation along the way.			Recorded classes

Computer Science	Data Science	HHN	Basic Statistics	Introduction to quantitative empirical research methods incl stochastics, descriptive statistics, and basic hypothesis testing (t-test, ANOVA, non-parametric methods)	exists already	exists already	video lectures about the theoretical part with accompanying exercises in MATLAB
Computer Science	Data Science	HTWB	Data Analysis	The course covers the basics of exploratory data analysis.	Q4 2026	Q4 2026	
Computer Science	Data Science	HTWB	Descriptive Statistics and Data Analytics	Introduction to descriptive statistics and data analytics, (mathematical) data pre-processing, visualization, statistical key figures and metrics, introduction to statistics software R			
Computer Science	Data Science	ESSCA	Algorithmic Forecasting and Burndown	The use of different algorithmic tools for forecasting future patterns and possible burndowns for businesses.	Q1 2026	Q3 2026	Digital Hands-on experience (Videos + Replication + Assignments)
Computer Science	Data Science	ISM	Applied Mathematic for Social Sciences	This course aims to develop skills for mathematical modeling of basic economic, financial, managerial and engineering problems.			Human-led
Computer Science	Data Science	HTWB	Data Science Fundamentals	Basic course on data science but on a master level			Jupyter notebook exercise, reverse class room
Computer Science	Data Science	HTWB	KI und Wissens-basierte Systeme	Course is designed for bachelor students and currently provided for computer science and related studies.			
Computer Science	Machine Learning	HTWB	Modern Computer Vision and Multimodal Models	Focusing on ML-based methods and VLLMs for Computer Vision (needs to be designed)			
Computer Science	Machine Learning	HTWB	Machine Learning Fundamentals	This is an ML course from standard ML models to deep learning with examples from NLP and CV			Jupyter notebook exercise, reverse class room
Computer Science	Machine Learning	KU	Advanced machine learning	tbd			Avatar-led
Computer Science	Machine Learning	HHN	Natural Language Processing	This course covers the fundamental concepts and advanced techniques at the intersection of human language and AI. Students will progress from basic text processing to modern deep learning approaches including transformer models like BERT and GPT, while exploring practical applications such as summarization, translation, and dialogue systems. Upon completion, students will be equipped to implement and evaluate NLP solutions using industry-standard tools and present findings effectively.	Q2/2027	Q1/2027	Humand-led, script, Jupyter notebooks

Computer Science	Machine Learning	HTWB	Explainable AI	This course gives a short introduction into LLMs and their explainability approaches focussing on Sparse Autoencoders (SAEs).	Q4/2025	Q4/2025	Avatar-led
Computer Science	Machine Learning	HTWB	Multimodal Agents	This course teaches advanced concepts for building generative AI systems in a multi-modal, multi-agentic setting.	Q2/2027	Q2 2026	Jupyter notebook exercise, reverse class room, self study and on premise workshops
Computer Science	Machine Learning	ISM	Artificial Intelligence Principals and Applications	In this introductory AI course, students will simultaneously learn programming fundamentals (using R) and AI principles. They will delve into essential concepts of Artificial Intelligence, exploring topics such as machine learning, neural networks, and data analysis techniques to build a foundational understanding of AI principles.			Human-led
Computer Science	Machine Learning	HTWB	Machine Learning for kids	This hands-on module introduces participants to the basics of machine learning using the user-friendly platform machinelearningforkids.co.uk. Without any programming skills required, learners will create and train their own image, text, or number classifiers. The module demonstrates how machine learning models can be used in real-life scenarios such as quality control, building access, or autonomous vehicles. Participants will collect training data, define categories, and test their models using various input methods, including webcam photos and hand-drawn images. This interactive approach offers a playful yet powerful entry into the world of AI. Requirements: A computer room or laptops/tablets (one device for every two participants) with pre-installed access to the necessary web applications and data. Duration: Minimum 90 minutes, ideally 180 minutes.	Q1 2026		lecture plan, excercises, training and test data, background knowledge for instructors
Computer Science	Machine Learning	HTWB	Basics of AI	The course covers the buzzwords around AI, the AI lifecycle, and a practical exercise about how algorithms can make decisions based on data.	Q1 2026	Q1 2026	
Computer Science	Machine Learning	HTWB	Generative AI	The course covers the working principles of generative AI, prompt engineering, and a practical prompting exercise.	Q1 2026	Q1 2026	
Computer Science	Software Engineering	KU	Advanced Python	tbd			Avatar-led
Computer Science	Software Engineering	HHN	Usability Testing Lab	Practical course about Usability Testing: Basic concepts of usability and usability testing, questionnaire construction, basic data analysis.	exists already	exists already	video lectures about the theoretical part, in the classroom it is intended to be accompanied by two group projects (one questionnaire study and one usability test) that are supervised by the course lecturer or an experienced tutor
Computer Science	Software Engineering	ZSEM	Introduction to Computer Science				
Engineering	Electrical Engineering	HTWB	AI for Embedded Systems	Embedded systems supply various data and perform pre-processing. Today's ES must also use powerful algorithms to evaluate and analyze the data and intervene in the control process. The trend is towards using specific and LLM AI models for this purpose. Both aspects are covered.	Jan 26	Okt 25	On site, scripts and slides online
Engineering		HTWB	AI for Engineers - Basic	Engineering module on AI - focus machine learning	Q22027	Q3 Q2027	

Engineering		HTWB	AI for Engineers - Advanced	Engineering module on AI - focus sensor data	Q22027	Q3 Q2027	
Fairness_Ethics	AI Ethics	UAO CEU	Ethical issues in AI and technology	This course prived a general overview on the challenges of AI from an ethical perspective. It will look specifically at the differences of power that can result from an inadequate or non-reflexive use of AI in different social and professional fields. It will provide criteria for a meaningful, human centred ethical perspective of using and applying AI	Q3/2026	Q3/2026	lectures with online exercises
Fairness_Ethics	Digital Governance	HTWB	AI & Ethics in Business & Public Management	This elective course explores how AI can be responsibly implemented in business and public administration, with a focus on ethical principles, governance frameworks, and real-world case studies.			Online seminar, video lectures, case studies, and collaborative group tasks
Fairness_Ethics		PJAiT	Fairness, Accountability, Transparency and Ethics in Information Systems (FATE)	Intelligent systems have now become ubiquitous across sectors of society. While their adoption has brought about many positive changes in our everyday lives, they have also introduced a number of social and ethical challenges. In particular, recently, there is much concern surrounding the use of development techniques (e.g., deep learning) that result in cognitive systems that are essentially 'black boxes' – neither the developer nor the user is positioned to fully understand their behaviors. Furthermore, industrial trends have also played a role in the proliferation of opaque systems in citizens' lives. Developers are increasingly incorporating proprietary cognitive components (e.g., image recognition, natural language processing, or search functionalities) into their own software. However, with increasing legislation (e.g., the EU's GDPR, DSA, AI Act) and industry standards that promote responsibility and accountability in intelligent systems, there is the potential that developers will be held accountable for the behaviors and consequences of the systems they build. Understanding and managing the impacts of the technologies one builds is essential for today's professional. This course aims to teach students how to analyze the potential social and ethical implications of emerging, cognitive technologies. It adopts a practical approach; students will become familiar with the state-of-the-art research related to "FATE" in algorithmic systems (in particular, algorithmic bias and transparency, as well as explainable systems), but will also get hands-on experience with approaches and tools for analyzing machine behavior for the purpose of mitigating ethical and social concerns.			15 lectures with interactive tasks
Fairness_Ethics		HTWB	Ethical Challenges of AI in Culture and Design	This course will examine how AI is changing the fields of culture and design, with a focus on the ethical challenges. Topics include among others bias, stereotypes, authorship, and how AI can impact creativity.	Q3/2026	Q2/2025	
Fairness_Ethics		PJAiT	Media Literacy, Disinformation and Debunking	The course aims to equip students with the essential skills and knowledge required to identify and combat disinformation in today's digital age. By examining the mechanisms through which false information spreads and employing practical tools for verification, students will develop critical thinking abilities necessary for responsible information consumption and sharing. Target group: especially those studying journalism, communications, or any field that involves information handling. It is also suitable for individuals interested in media literacy and digital literacy.			15 lectures with online exercises
Fairness_Ethics		HHN	Future Skills	In an era of rapid technological advancement and evolving job markets, future-proofing your skillset is crucial. This course equips learners with essential future skills, blending technological literacy, critical thinking, creativity, and emotional intelligence to thrive in dynamic environments. Participants will gain hands on experience, case studies and interactive exercises to develop competencies vital for career and personal success.	Q2 2027	Q4 2026	Avatar led

Fairness_Ethics		HTWB	AI and Society (for middle school learners or non-computer science students)	This OER provides a structural framework, content, and teaching ideas for a lesson on the basics of AI, its areas of application (particularly AI in education), and the problems AI can cause. This OER pursues the following learning objectives: ● The students can roughly explain what AI is. ● The students understand the difference between AI programs and normal programs. ● The students can name possible areas of application for AI. ● The students can identify biased AI through examples. ● The students can express their opinions on AI in education. The proposed content is suitable for middle school students. No prior knowledge about AI is required.	Q4 2025	Q2 2026	lecture plan
Fairness_Ethics		HTWB	AI and the Environment (for middle school learners or non-computer science students)	This OER offers a structural framework, content, and teaching ideas for a module on the influence of AI on the environment. It addresses ecological aspects. Other social aspects of sustainability are not covered. This OER pursues the following learning objectives: ● The students understand the lifecycle of ChatGPT. ● The students can name the environmental impacts of ChatGPT. ● The students know cases where AI is used to benefit the environment. The proposed content is suitable for middle school students. The following prior knowledge is required: ● Students can roughly explain what AI is. ● Students understand the difference between AI programs and normal programs. ● Students can name possible application areas of AI	Q4 2025	Q2 2026	lecture plan
Fairness_Ethics		HTWB	Fair Machine Learning	This OER provides structure, content, and task ideas for a teaching unit on the topic of Fair Machine Learning. The unit addresses both social and technical aspects of fair machine	Q4 2025	Q2 2026	lecture plan, Jupyter notebook, handout
Fairness_Ethics		HTWB	Fair AI in HR	In this interactive workshop, participants aged 14 and up step into the roles of job applicants and HR professionals as they explore a fictional AI system designed to rank	Q1 2026	Q2 2026	lecture plan, excercises, software simulation, background knowledge for instructors
Fairness_Ethics		HTWB	AI and Ethics	The course covers ethical problems related to AI, best practices, and a practical exercise about the influence of data quality on algorithmic decision-making.	Q1 2026	Q1 2026	
Fairness_Ethics		HHN	Research Ethics for Data Collection from Human	Research Ethics for Data Collection from Human Participants – Case Study and Recommendations	Jul 25	-	Conference Talk (Video) and Paper
Teacher education	AI literacy	SUPSI	Introduction to AI in Education	A self-paced online course designed to equip students with foundational knowledge and critical skills for using AI responsibly in academic and professional contexts. The module	Q3 2026	Q1 2026	Online, self-paced
Teacher education		ESSCA	Pedagogical Strategy to Challenge AI	This intervention presents a straightforward, triangulated strategy to empower educators in academia. Rather than integrating, depending on, or aligning with AI, the focus is on	Q1 2026	Q3 2026	Webinar + Workshop (Design Sprints)
Teacher education		HTWB	Aligning AI Use with Learning Objectives in Higher Education	This course supports higher education teachers in meaningfully integrating AI into their teaching by aligning its use with specific learning objectives. Through a combination of	Q3/2026	Q3/2026	Interactive workshop for higher education instructors (on-site or online)
Teacher education		HTWB	Artificial Intelligence beyond ChatGPT: Using AI in Teaching	The course covers the basics of (generative) AI. Participants develop and present ideas about how AI tools can be integrated into their own teaching.	Q1 2026	Q1 2026	
Teacher education		HTWB	AI in Term Papers and Theses: Rethinking Student Writing in the Age of AI	This course supports higher education instructors in dealing with the use of AI tools in student term papers and final theses (Bachelor's and Master's level). It provides orientation on didactic, legal, and ethical questions, offers strategies for assignment design and	Q2/2027	Q2/2027	Self-paced online course for individual professional development
Teacher education		HTWB	Teaching Design with AI: Preparing Courses More Effectively	This course enables higher education instructors to use AI tools effectively in the preparation of teaching – from planning learning outcomes and course structures to creating materials and assessments. Participants explore how AI can support, inspire, and streamline their teaching design, while reflecting on its limitations and didactic implications.	Q3/2026	Q3/2026	Self-paced online course with tool demonstrations, templates, and reflection prompts Workshop concept for hands-on training or team-based teaching development sessions Includes example workflows, prompts for teaching design, and a checklist for responsible AI use in course planning