KOENIG SOLUTIONS · COURSE OUTLINE

AI in Education: Prompt Engineering & Adoption

Learn to apply AI and prompt engineering to create, assess and strategically integrate learning content across educational institutions.

40 Hours	5	26	14
DURATION	MODULES	TOPICS	HANDS-ON ACTIVITIES

COURSE OVERVIEW

This course examines the AI ecosystem and its applications across K-12, higher education and corporate learning, beginning with mapping institutional workflows to prioritise AI use cases. It covers prompt engineering for lesson plans, assessments and multimedia content, including AI image generation and integration with tools such as Adobe Creative Cloud and Articulate Storyline. It then addresses AI-assisted assessment, automated grading, adaptive testing and learning analytics dashboards. The final modules cover building an AI adoption roadmap, vendor evaluation, change management, and drafting institutional AI usage guidelines and ethics and compliance policy, including UAE/GCC data protection frameworks.

WHO THIS COURSE IS FOR

- **Instructional Designers**
- **Educational Technologists**
- **Curriculum Developers**
- **Academic Administrators**
- **Learning and Development Leaders**
- **Institutional Policy Makers**

LEARNING OBJECTIVES

- Explain core AI concepts including machine learning, NLP and generative AI
- Identify AI opportunities by mapping institutional workflows
- Apply advanced prompt engineering to lesson plans and assessments
- Evaluate AI-generated content quality against human-created content
- Design AI-assisted formative and summative assessments
- Interpret learning analytics dashboards for instructional insights
- Plan an AI adoption roadmap and vendor evaluation framework
- Assess ethical and compliance considerations in institutional AI policy

COURSE SYLLABUS

5 Modules, 26 Topics

01

2 Labs/Case Studies

AI Foundations & Opportunity Mapping

TOPICS

- **Introduction to AI:** Machine Learning, NLP, Generative AI
- **AI Ecosystem:** Tools, Platforms, Integrated Systems in Education
- Global Trends and Case Studies in K-12, Higher Education, Corporate Learning
- Mapping Institutional Workflows to Identify AI Opportunities
- Prioritizing Use Cases Based on Impact and Feasibility

02

3 Labs/Case Studies

AI-Powered Content Creation & Multimedia

TOPICS

- Advanced Prompt Engineering for Educational Content (Lesson Plans, Assessments, Learning Objectives)
- AI for Research, Summarization, and Multilingual Adaptation
- AI Image Generation for Pedagogical Visuals
- Integration with Adobe Creative Cloud & eLearning Tools (Articulate Storyline)
- Evaluating AI-Generated Content Quality and Relevance

03

3 Labs/Case Studies

AI for Assessment & Analytics

TOPICS

- **Designing AI-Assisted Assessments:** Formative & Summative
- Automated Grading and Personalized Feedback
- Adaptive Testing and Question Bank Generation
- **Learning Analytics:** Interpreting AI Dashboards for Insights
- **Ethical Considerations:** Privacy, Bias, and Fairness in Assessment

04

3 Labs/Case Studies

Strategic AI Integration in Education

TOPICS

- Creating an AI Adoption Roadmap
- Assessing Organizational Readiness and Infrastructure Needs
- Vendor Evaluation and Selection Framework
- **Budgeting for AI:** Pilots vs. Scaling
- **Change Management:** Training, Buy-in, Cultural Shifts
- Drafting Institutional AI Usage Guidelines

05

3 Labs/Case Studies

Ethics, Compliance & Institutional AI Policy

TOPICS

- **Ethical Challenges:** Bias, Transparency, Academic Integrity, Access
- UAE/GCC Data Protection and AI Compliance Frameworks
- Policy Development for Safe and Inclusive AI Use
- Emerging Trends and Future-Proofing AI Strategies
- **Capstone:** AI Integration Playbook & Stakeholder Presentation

HANDS-ON ACTIVITIES

Practise What You Learn

#	MODULE	ACTIVITY
01	**AI Foundations & Opportunity Mapping**	**Case Study:** AI adoption success stories in global education **Lab:** Workflow mapping exercise & AI opportunity prioritization
02	**AI-Powered Content Creation & Multimedia**	**Lab:** Prompt design for differentiated lesson plans **Lab:** Creating AI-generated visuals and integrating into courseware **Case Study:** Comparing human-created vs. AI-generated content
03	**AI for Assessment & Analytics**	**Lab:** Building AI-generated question banks and rubrics **Lab:** Data analytics exercise using anonymized learner data **Case Study:** AI-powered adaptive learning in action
04	**Strategic AI Integration in Education**	**Lab:** AI adoption roadmap creation & scenario planning **Case Study:** Vendor evaluation and scoring **Role-Play:** Stakeholder communication simulation
05	**Ethics, Compliance & Institutional AI Policy**	**Case Study:** AI ethics failures & lessons learned **Lab:** Policy drafting and peer review **Capstone Project:** Presenting an AI Integration Playbook for your institution

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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