

AI in Education

Duration: 40 hours

Module 1: 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

Labs/Case Studies

- *Case Study:* AI adoption success stories in global education
 - *Lab:* Workflow mapping exercise & AI opportunity prioritization
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Module 2: 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

Labs/Case Studies

- *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
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Module 3: 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

Labs/Case Studies

- *Lab*: Building AI-generated question banks and rubrics
 - *Lab*: Data analytics exercise using anonymized learner data
 - *Case Study*: AI-powered adaptive learning in action
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Module 4: 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

Labs/Case Studies

- *Lab*: AI adoption roadmap creation & scenario planning
 - *Case Study*: Vendor evaluation and scoring
 - *Role-Play*: Stakeholder communication simulation
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Module 5: 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

Labs/Case Studies

- *Case Study*: AI ethics failures & lessons learned

- *Lab*: Policy drafting and peer review
 - *Capstone Project*: Presenting an AI Integration Playbook for your institution
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