

AI in Project Management Course Content

Chapter 1: Introduction to Artificial Intelligence in Project Management

- Overview of AI and its evolution
- Aim and purpose of integrating AI in project management
- Scope of research and practice in the field
- AI within the corporate and organizational context

Chapter 2: Industry 4.0 and Digital Transformation

- Role of Industry 4.0 in shaping modern project management
- Emerging technologies: IoT, Blockchain, Big Data, Cloud Computing
- Synergy between Industry 4.0 and AI

Chapter 3: Types of AI Systems

- Narrow AI, General AI, and Generative AI
- Machine Learning, Deep Learning, and Natural Language Processing
- Decision-support vs. Autonomous systems in project contexts

Chapter 4: Project Management Fundamentals

- iClassical methodologies: Waterfall, Agile, Hybrid
- PMBOK framework and knowledge areas
- The evolving role of project managers in the AI era

Chapter 5: The Future of Project Management with AI

- Predictive project analytics
- Intelligent automation in planning, scheduling, and risk management
- AI as a co-pilot for project managers

Chapter 6: SWOT Analysis of AI in Project Management

- Strengths: efficiency, accuracy, predictive power
- Weaknesses: bias, dependency, complexity
- Opportunities: innovation, scalability, global adoption
- Threats: ethical risks, workforce disruption, data privacy

Chapter 7: Research Methodology for AI-PM Studies

- Research strategies and design (qualitative, quantitative, mixed)
- Data collection methods (surveys, interviews, case studies)
- Research quality: reliability, replicability, validity
- Ethical considerations in AI-related research

Chapter 8: Results from Surveys

- Survey design & data collection process
- Insights on AI adoption in project management
- Perceptions of AI in organisational business practices

Chapter 9: Results from Interviews

- Interview design & key stakeholder groups (PMs, executives, IT leads)
- Themes from project management professionals
- Views on AI tools and practical adoption barriers

Chapter 10: Analysis & Discussion – Project Management Community

- Requirements and expectations from AI systems
- Awareness and maturity of AI adoption in PM
- Comparison between survey and interview insights

Chapter 11: Building and Implementing AI Systems for Project Managers

- Frameworks for AI adoption in PM offices (PMOs)
- AI tool selection, integration, and customization
- Change management and organizational readiness

Chapter 12: Governance, Ethics, and the Future

- Ethical challenges in AI-driven decision making
- Data governance, compliance (GDPR, ISO, PMI guidelines)
- Responsible AI adoption in projects
- Future roadmap for AI in PM practice

Chapter 13: Capstone Projects

Learners design and present an AI-Augmented Project Management Plan that demonstrates:

- AI-assisted planning, scheduling, and resource allocation
- Risk and quality management using predictive AI tools
- AI-powered communication and reporting dashboards
- Consideration of ethics, governance, and change management



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