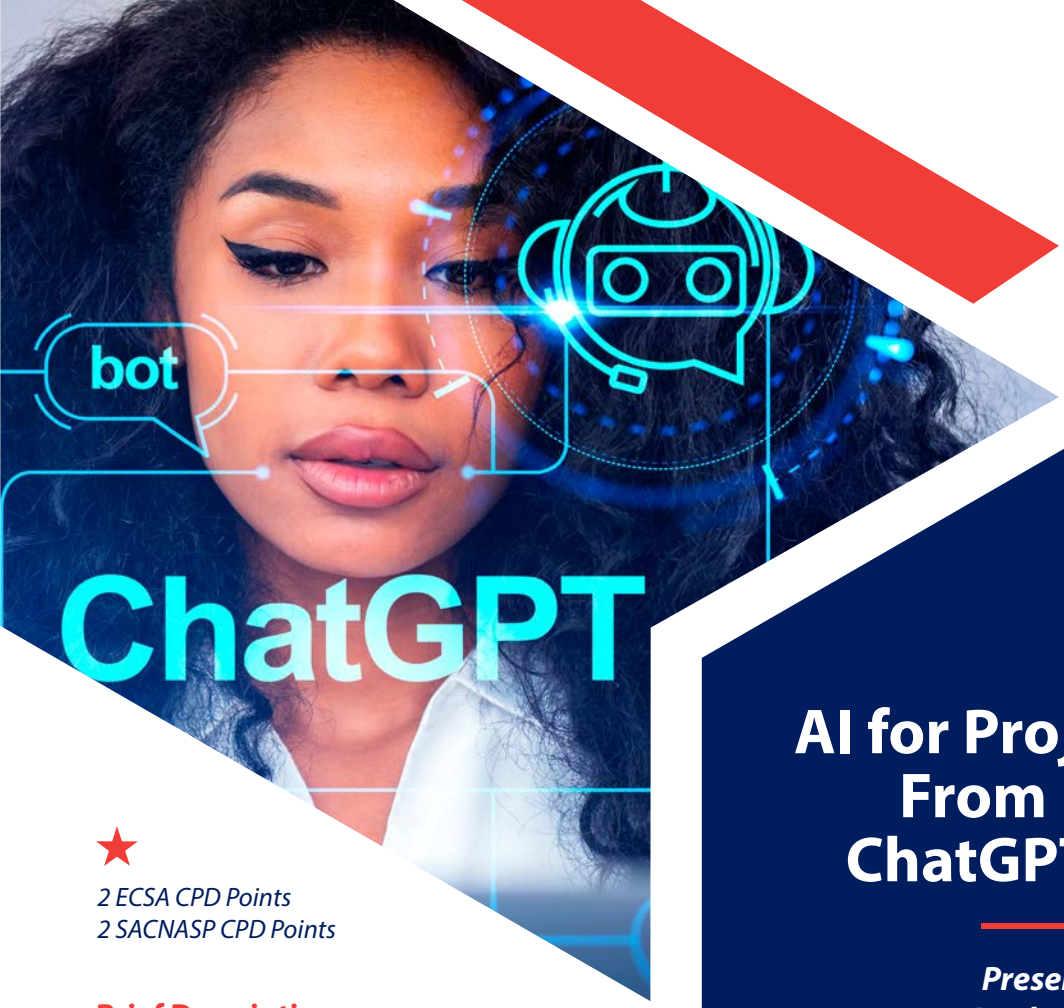
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AI for Project Success: From Basics to ChatGPT in Action

Presented by the Graduate School of Technology Management, University of Pretoria

** GSTM is an Authorised Training Partner (ATP) of the Project Management Institute (PMI).*

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2 ECSA CPD Points
2 SACNASP CPD Points

Brief Description

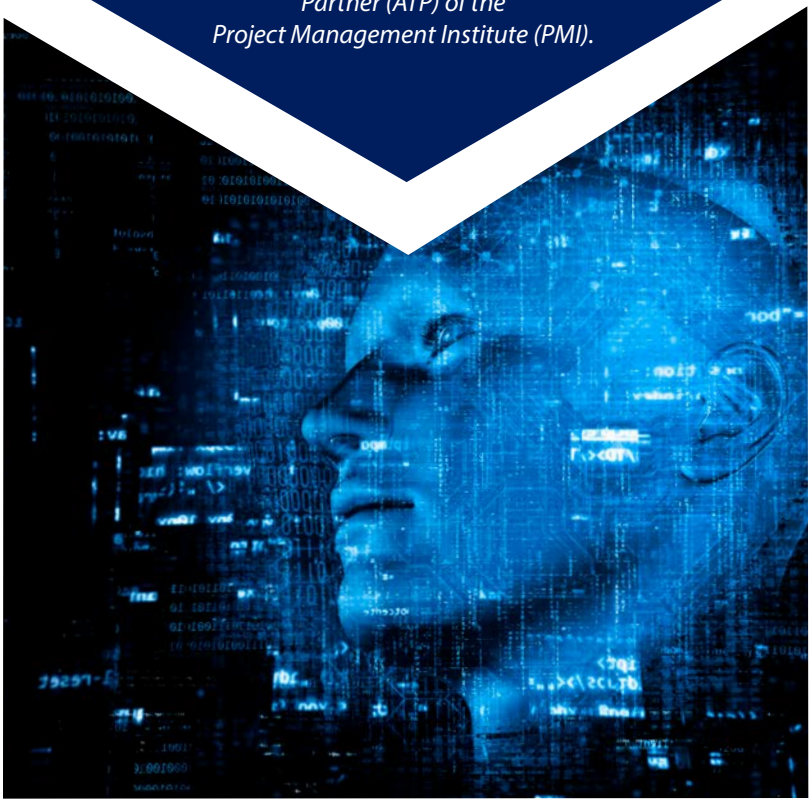
This course combines foundational theory with hands-on practice of AI and Blockchain in a project management environment. Participants will start by learning the basics, covering the context of the five Industrial Revolutions, the Internet of Things, big data, and key AI concepts such as machine learning, deep learning, and Generative AI. The second part focuses on practical applications, including prompt engineering using ChatGPT and understanding Blockchain's role in project management. An individual assignment reinforces these skills in real-world project contexts, ensuring delegates can apply what they learn immediately.

Who should enrol?

This course is ideal for professionals working in or transitioning into project environments who are eager to enhance their skills with cutting-edge technologies like Generative Artificial Intelligence and Blockchain.

This course is suited for, but not limited to, the following professionals:

- Project Managers
- PMO Staff
- Operations Managers
- Program Managers
- Product Managers
- Consultants
- Entrepreneurs



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Course content

This course combines foundational theory with hands-on practice of Generative AI and Blockchain in a project management environment.

1. The context of the five Industrial Revolutions
2. Future skills for 2030
3. The new role of the project manager
4. Background to AI
   - What is AI? Key elements and model
   - Platforms or applications that use AI technologies
   - AI applications in various sectors
   - Internet of Things (IoT) and Big Data
   - Machine Learning (ML)
   - Deep Learning (DL)
   - AI in project management (Impact, risks and how to address them)
5. Blockchain and Smart Contracts
   - Applications in project management
   - Blockchain options comparison
6. Generative Artificial Intelligence (GenAI)
   - Key components and how it works
   - Advantages
   - Challenges and ethical considerations
   - AI Tools, including free vs paid
   - Application in project management
7. Generative Pre-trained Transformers (GPTs)
8. Prompt Engineering
   - ChatGPT as your PA
   - Why does ChatGPT hallucinate?
   - Basic structure of a prompt
   - Principles of effective prompting
   - ChatGPT custom instructions
   - Truth Protocol System Prompt
   - Useful prompts for project management
   - Key strategies for conversation for project management
   - Metaprompting for project management
   - Image-generating prompting

Learning Outcomes

By the end of the course, delegates will be confident and skilled in the:

Industrial Revolutions and Future Skills
- Understand the historical context and characteristics of the five Industrial Revolutions, particularly the Fourth Industrial Revolution (4IR) and its impact
- Identify and describe the key skills needed to thrive in the 2030 workforce, including critical thinking and emotional intelligence

AI Fundamentals
- Explain the core concepts of AI, its key elements, and models
- Identify and categorise different platforms and applications that utilize AI technologies
- Describe the applications of AI in various sectors and understand the relationship between AI, Internet of Things, and Big Data
- Differentiate between Machine Learning, the Internet of Things and Deep Learning

AI and Project Management
- Analyse the transformative impact of AI on the project management profession, including potential risks and mitigation strategies
- Evaluate how AI can be leveraged to enhance project efficiency and decision-making

Blockchain and Smart Contracts
- Explain Blockchain and smart contract principles and types of Blockchains
- Analyse applications of Blockchain in project management processes
- Evaluate the benefits and challenges of using smart contracts in projects
- Compare Blockchain platforms (e.g., Ethereum, Hyperledger, Corda) for project use
- Recommend suitable Blockchain options for specific project contexts

Generative Artificial Intelligence (GenAI)
- Understand the key components and functionality of GenAI
- Discuss the advantages, challenges, and ethical considerations associated with GenAI
- Identify and evaluate various AI tools, including free and paid options
- Analyse the application of GenAI within project management contexts

Generative Pre-trained Transformers (GPTs) and Prompt Engineering
- Develop practical skills in prompt engineering for effective interaction with large language models, such as using ChatGPT as a personal assistant
- Explain the causes of AI hallucinations and implement strategies to mitigate them
- Construct well-structured and effective prompts for various tasks, including project management
- Utilise advanced prompting techniques, such as Custom Instructions, the Truth Protocol System Prompt, metaprompting, and conversation strategies for project management scenarios
- Create and use effective prompts for image generation

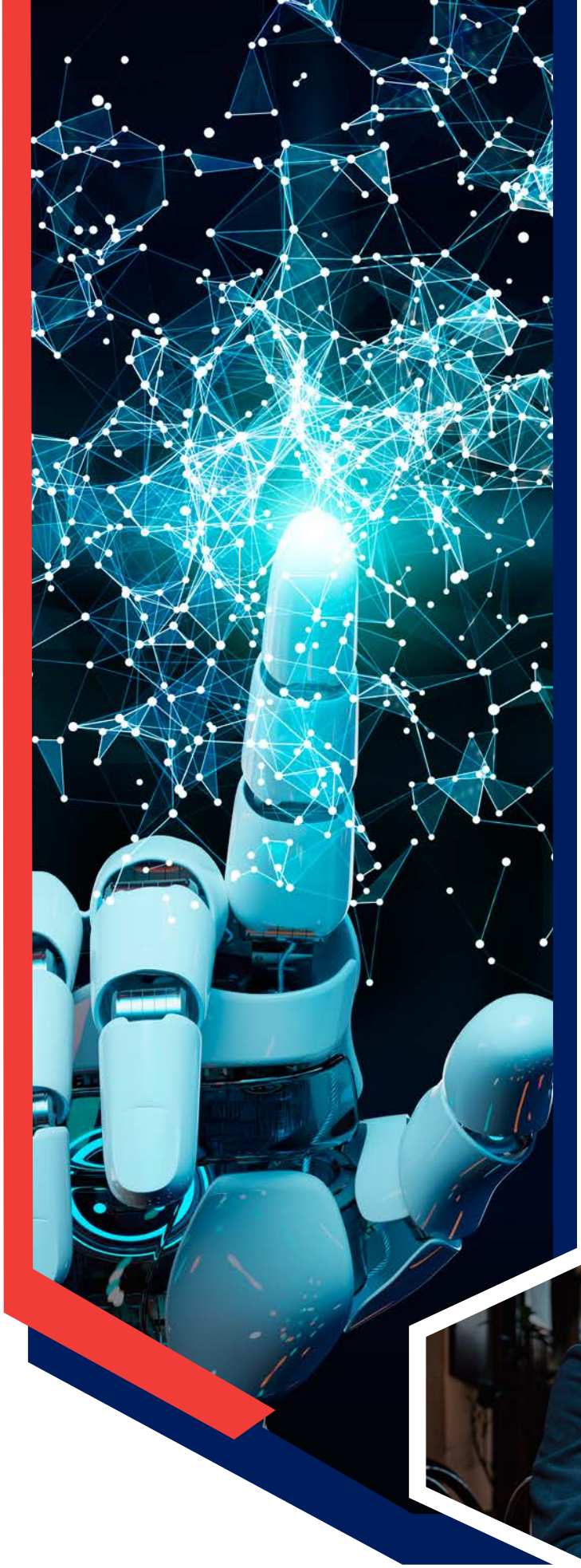
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Entry Requirements

Grade 12 or equivalent

Course fees

R7 000.00 per delegate (VAT incl.)
Delegates will be required to subscribe to ChatGPT Plus for one month in order to access the necessary tools and features. The subscription can be cancelled after one month if they choose.

Course fees must be paid in full 14 days prior to course start dates. Proof of payment can be submitted to enrolments@enterprises.up.ac.za

Course dates

10 – 11 May 2027

Registration and Enquiries

Client Information Centre
Tel: +27 (0)12 434 2500
Email: info@enterprises.up.ac.za

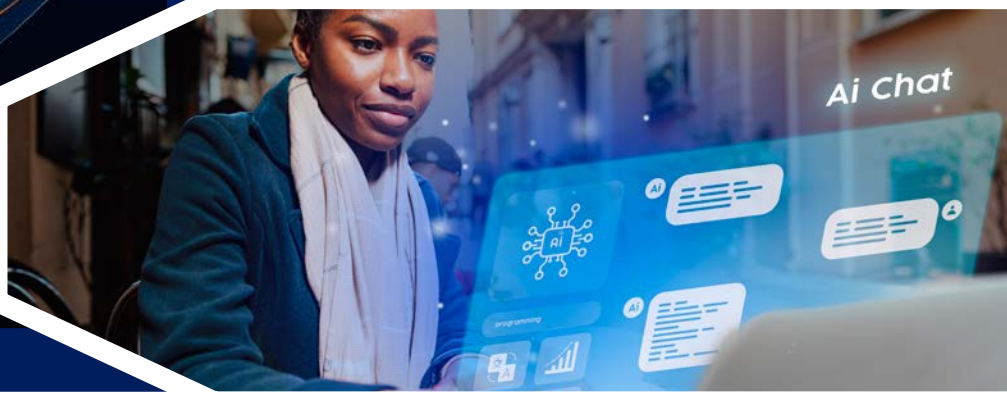
Accreditation and certification

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Course Leader

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