MACQUARIE University
SYDNEY · AUSTRALIA

Introduction to Generative Artificial Intelligence in Education

SUMMARY

Generative AI represents a transformative leap in how technology can be utilised in education. Understanding generative AI isn't just necessary to keep pace with technological advancements; it's essential in preparing for a future where AI tools can enhance teaching strategies, enrich curriculum development, and foster a learning environment that encourages innovation and critical thinking.

The Introduction to Generative Artificial Intelligence in Education microcredential provides Australian teachers with a foundational understanding of generative AI, its capabilities and its potential applications in the classroom. It explores the mechanics behind generative AI, including how it learns from data to create original content; and uncovers a range of opportunities presented by generative AI, including new avenues for creativity, personalised learning and engagement.

KEY FEATURES

- **Develop a broad understanding of generative AI**
  Explore the transformative potential, challenges, benefits and risks associated with generative AI in educational settings.

- **Build practical skills and learn from experts**
  Examine current AI tools and identify which are most applicable to your learning context.

- **Study regulatory and policy frameworks for Australian schools**
  Develop your knowledge of the legal and ethical boundaries associated with using generative AI in the classroom.

KEY DETAILS

MODE
Online asynchronous, self-paced learning

DURATION
25 hours
Recommended five hours per week
(one module per week)

DESIGNED FOR
- Australian teachers (F–12)
- school executives responsible for generative AI policy and integration

INTRODUCTION TO GENERATIVE ARTIFICIAL INTELLIGENCE

LEARNING OUTCOMES

- Understand and explain the difference between AI and generative AI.
- Understand the implications of AI (both possibilities and risks) for education.
- Understand and discuss common misunderstandings and fears around AI, particularly in education.
- Identify current regulatory and policy frameworks for Australian schools.
- Critically examine an AI tool and evaluate its strengths and weaknesses for use in your teaching practice.
- Explain the practical, philosophical and ethical implications of using generative AI for teaching in your context.
- Identify to what extent and in what ways teaching should change in your context due to the rapid advancements of generative AI.

AUSTRALIAN PROFESSIONAL STANDARDS FOR TEACHERS

Completing this microcredential will provide you with skills relevant to the following AITSL teacher standards:

2 – Know the content and how to teach it

3 – Plan for and implement effective teaching and learning

4 – Create and maintain supportive and safe learning environments

6 – Engage in professional learning.

HOW YOU'LL LEARN

ONLINE
You'll engage in independent learning, and be able to structure your learning around your own schedule and timeline.

This flexible approach enables you to access a wide range of resources and materials at your own pace, which promotes deeper understanding and retention of knowledge. The modules are designed to maximise engagement through interactive content and personalised reflection.

WHO YOU'LL LEARN FROM

PROFESSOR MATT BOWER
Professor Matt Bower from the Macquarie School of Education specialises in the innovative use of technology for learning purposes. He's intensely curious about how contemporary technologies, in particular artificial intelligence, can be most effectively used to enhance cognitive development and collaborative learning. He's a world-renowned and respected expert in the educational technology field, having authored more than 100 peer-reviewed publications, written the award-winning book *Design of Technology-Enhanced Learning,* and led numerous projects and research initiatives. He's contributed to the development of the Australian Framework for Generative AI in Schools, and he currently leads the educational technology subjects at Macquarie.

DR JODIE TORRINGTON
Dr Jodie Torrington from the Macquarie School of Education researches self-regulated learning in digital contexts, mobile learning and technology-enhanced learning. She's an educator with more than 25 years of experience spanning primary, music and gifted education across Australia and New Zealand; and is an Honorary Fellow of the Teachers' Guild of NSW.

ACCREDITATION
Macquarie University is a NESA-endorsed professional development provider. This microcredential will provide you with 25 hours of professional learning for your accreditation.

FIND OUT MORE
microcredentials.mq.edu.au/courses/introduction-to-generative-artificial-intelligence