

## **Course Description**

### **MEDD8934 Artificial Intelligence and Language Education**

<b>Course description</b>	
<p>This course explores the transformative potential of artificial intelligence (AI) in language education, focusing on the integration of AI tools and methodologies into teaching and learning practices. Students will critically examine the theoretical foundations, ethical considerations, and practical applications of AI in language learning contexts. Topics include AI-powered language assessment, personalised learning through adaptive technologies, AI-assisted writing and translation tools, and conversational agents such as chatbots for language practice. The course emphasises hands-on exploration of AI tools and fosters the development of critical thinking skills to evaluate their pedagogical effectiveness. Participants will also engage in collaborative projects to design innovative teaching strategies and interventions that incorporate AI, addressing real-world challenges in language education. By the end of the course, students will have a nuanced understanding of AI's potential and limitations, equipping them to become leaders in integrating AI into language education.</p>	
<b>Course objectives</b>	
<ol style="list-style-type: none"><li><b>1. Understand AI Fundamentals in Language Education:</b> Develop a foundational understanding of artificial intelligence concepts, tools, and applications relevant to language teaching and learning.</li><li><b>2. Critically Evaluate AI Tools:</b> Analyze the pedagogical potential, ethical implications, and limitations of AI tools in various language education contexts.</li><li><b>3. Design AI-Enhanced Learning Strategies:</b> Create innovative, student-centered teaching strategies that effectively integrate AI technologies to enhance language acquisition and engagement.</li><li><b>4. Foster Ethical and Inclusive AI Use:</b> Promote the responsible and equitable use of AI in language education, ensuring ethical practices and addressing challenges such as bias, privacy, and accessibility.</li><li><b>5. Enhance Professional Skills:</b> Equip students with the skills to adapt and lead in the evolving field of AI and language education, preparing them for roles as researchers, educators, or policymakers.</li></ol>	
<b>Course learning outcomes (CLOs)</b>	
1. Articulate AI Concepts: Explain the key principles, technologies, and pedagogical applications of artificial intelligence in language education.	PLOs 1, 2
2. Integrate AI into Pedagogy: Design and implement innovative language learning activities using AI tools while addressing the needs of diverse learners.	PLOs 1, 3
3. Evaluate AI's Impact: Critically analyze the effectiveness, ethical considerations, and limitations of AI tools in language teaching and assessment.	PLOs 2, 3
4. Demonstrate Research Skills: Conduct informed investigations into the integration of AI in language education, leveraging evidence-based practices	PLOs 2, 4, 5
5. Advocate Ethical AI Use: Promote ethical, inclusive, and culturally sensitive practices in applying AI technologies within language education contexts.	PLOs 4, 5
<b>Course assessment methods</b>	
<ul style="list-style-type: none"><li>• Essay</li><li>• Presentation</li></ul>	
<b>Course content and topics</b>	

<ul style="list-style-type: none"> <li>• Introduction to AI in Language Education</li> <li>• AI Tools for Language Learning</li> <li>• Personalisation and Adaptive Learning</li> <li>• AI in Language Assessment</li> <li>• AI for Writing and Translation</li> <li>• Ethical and Inclusive AI Practices</li> <li>• Innovations and Research in AI for Language Education</li> <li>• Synthesis and Future Directions</li> </ul>
<b>Required / recommended readings and online materials</b>
<p>Harari, Y. N. (2024). <i>Nexus: A Brief History of Information Networks from the Stone Age to AI</i>. Random House.</p> <p>Lin, C.-H., Zhou, K., Li, L., &amp; Sun, L. (2025). Integrating generative AI into digital multimodal composition: A study of multicultural second-language classrooms. <i>Computers and Composition</i>, 75, 102895. <a href="https://doi.org/10.1016/j.compcom.2024.102895">https://doi.org/10.1016/j.compcom.2024.102895</a></p> <p>Rice, M., DePascal, N., Argüello de Jesús, J. T., McFeely, H., Traylor, A., &amp; Heaviland, L. (2024). <i>What is the machine? Teachers' professional learning about generative artificial intelligence as tutors for children</i>. <i>Professional Development in Education</i>, 1–16. <a href="https://doi.org/10.1080/19415257.2024.2407413">https://doi.org/10.1080/19415257.2024.2407413</a></p>
<b>Other additional course information</b>
<p>Nil</p>