

TEACHING AND LEARNING CASE STUDY	
<b>Name of Institution/ Organisation</b>	Technological University of the Shannon
<b>Who led the initiative?</b>	Dr Patrick Browne, Department of Electrical & Electronic Engineering
<b>Date and timeframe of the initiative</b>	academic year 2024 – 2025 and ongoing.
<b>What was the reach of the initiative?</b>	81 staff to date,
<b>Initiative Title</b>	Conquering AI for effective teaching
<b>Aims/ Objectives</b>	A workshop that explores the fascinating world of artificial intelligence and its practical applications in higher education. Learn as we delve into the history of AI, demystify the technology behind it, and showcase its ability to revolutionize classroom instruction.
<b>Rationale and Identified Needs</b>	The rapid advancement of AI presents both opportunities and challenges for higher education. This workshop addresses the need for educators to understand AI's potential to enhance teaching and learning. By demystifying AI concepts and showcasing practical applications, this workshop aims to empower educators to harness AI's power for innovative and effective instruction.
<b>Frameworks, Policies, or Strategies Aligned  (internal, local or national)</b>	N/a
<b>Summary</b>	<p>This workshop explores the exciting world of artificial intelligence (AI) and its real-world applications in higher education. We'll delve into the history of AI, demystify the technology behind it, and showcase how AI can revolutionize classroom instruction.</p> <p><b>**Rational and Identified Needs**</b></p> <p>The rapid advancement of AI presents both opportunities and challenges for higher education. This workshop addresses the need for educators to</p>

	<p>understand AI's potential to enhance teaching and learning. By demystifying AI concepts and showcasing practical applications, this workshop aims to empower educators to harness AI's power for innovative and effective instruction.</p> <p><b>Workshop Overview</b></p> <ol style="list-style-type: none"> <li><b>Introduction to AI:</b> <ul style="list-style-type: none"> <li>Brief history of AI and its key milestones</li> <li>Core concepts of AI, including machine learning and deep learning</li> <li>AI's impact on various industries and everyday life</li> </ul> </li> <li><b>AI in Education:</b> <ul style="list-style-type: none"> <li>AI-powered tools and technologies for personalized learning</li> <li>Automated grading and feedback systems</li> <li>AI-assisted teaching and curriculum development</li> <li>Ethical considerations and responsible AI in education</li> </ul> </li> <li><b>Hands-on Activities:</b> <ul style="list-style-type: none"> <li>Interactive workshops to explore AI tools and applications</li> <li>Practical demonstrations of AI-powered educational platforms</li> <li>Collaborative projects to develop AI-based solutions for teaching and learning</li> </ul> </li> <li><b>Future of AI in Higher Education:</b> <ul style="list-style-type: none"> <li>Emerging trends and potential breakthroughs in AI</li> <li>Challenges and opportunities for AI adoption in educational institutions</li> <li>Strategies for preparing educators and students for the AI-driven future</li> </ul> </li> </ol> <p><b>Workshop Objectives</b></p> <ul style="list-style-type: none"> <li>Gain a foundational understanding of AI concepts and terminology</li> <li>Explore the potential of AI to enhance teaching and learning practices</li> <li>Develop practical skills to implement AI-powered tools and technologies in the classroom</li> <li>Identify ethical considerations and responsible AI practices in education</li> <li>Network with peers and experts in the field of AI and education</li> </ul> <p><b>Target Audience</b></p> <p>This workshop is designed for educators, faculty members, administrators, and anyone interested in leveraging AI to improve higher education. No prior technical knowledge is required.</p>
--	---

	<p><b>**Expected Outcomes**</b></p> <p>Participants will be able to:</p> <ul style="list-style-type: none"> <li>* Articulate the key concepts and applications of AI in education</li> <li>* Evaluate the potential benefits and challenges of AI in their teaching and learning contexts</li> <li>* Identify and implement AI-powered tools and technologies to enhance their instructional practices</li> <li>* Engage in critical discussions about the ethical implications of AI in education</li> <li>* Develop a vision for the future of AI in higher education and its role in shaping the next generation of learners</li> </ul> <p><b>**Workshop Format**</b></p> <p>The workshop will combine presentations, interactive discussions, hands-on activities, and collaborative projects to create an engaging and informative learning experience.</p>
<p><b>Did you collaborate with internal and/or external stakeholders to deliver?</b></p>	<p>Yes,                  Dr Mary Giblin (TUS)                  Dr Padraig Ó Cathain (DCU) &amp; Conchur O Brolchain (DCU)</p>
<p><b>Organisation and Planning</b></p>	<p>Describe action planning, piloting, approvals, committee meetings, and timeframes.</p>
<p><b>What resources did you need?</b></p>	<p>Financial and logistical support from CPID, specifically Dr Nuala Harding and Ruth Benson, Financial support for materials, research and hosting of speakers.</p>

<p><b>Has it been evaluated? How successful has it been?</b></p>	<p>Provide any evaluation details and outcomes.</p>
<p><b>Any future plans, including the sustainability of the initiative?</b></p>	<p>We see running the workshop again for all staff at TUS each year as AI is ever changing the way we teach. We would also like to explore running a similar themed workshop aimed at undergraduates to help them understand the use and misuse of AI.</p>
<p><b>Key Learning Points</b></p>	<ol style="list-style-type: none"> <li>1. <b>AI is not a distant future; it's here now:</b> AI is already integrated into many aspects of our lives, and its impact on education is growing rapidly.</li> <li>2. <b>AI can enhance teaching and learning:</b> AI-powered tools can personalize learning experiences, automate tasks, and provide valuable insights for educators.</li> <li>3. <b>Ethical considerations are crucial:</b> As AI becomes more prevalent, it's essential to address ethical concerns such as bias, privacy, and the potential for misuse.</li> <li>4. <b>AI is a tool, not a replacement:</b> AI should be used to augment human capabilities, not to replace them. The human element remains essential in education.</li> <li>5. <b>Continuous learning is key:</b> The field of AI is constantly evolving. Educators should stay updated on the latest developments and opportunities to effectively harness AI in their classrooms.</li> </ol>

**Teaching and Learning Focus Areas (please tick all that apply)**

Categories	Elements	Topics	Target Groups
Commit <input type="checkbox"/>	Leadership, Strategy & Governance <input checked="" type="checkbox"/>	Digital Transformation <input checked="" type="checkbox"/>	Students <input type="checkbox"/>
Coordinate <input checked="" type="checkbox"/>	Curriculum and Assessment <input checked="" type="checkbox"/>	Education for Sustainable Development <input type="checkbox"/>	Staff <input checked="" type="checkbox"/>
Consult <input checked="" type="checkbox"/>	Innovation in Teaching <input checked="" type="checkbox"/>	Academic Integrity <input checked="" type="checkbox"/>	Wider community <input type="checkbox"/>

Create <input type="checkbox"/>	Professional Development <input checked="" type="checkbox"/>	Inclusive and Equitable Teaching Practices <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
Celebrate & Continue <input type="checkbox"/>	Research and Evaluation <input type="checkbox"/>	Innovations in Assessment and Feedback <input checked="" type="checkbox"/>	
		Student Engagement and Partnership <input checked="" type="checkbox"/>	
		Collaborative and Interdisciplinary Approaches <input type="checkbox"/>	
		Artificial Intelligence <input checked="" type="checkbox"/>	
		Other <input type="checkbox"/>	

**Contact Details**

<b>Contact Name/s</b>	Dr Patrick Browne
<b>Date</b>	18/11/2024
<b>Email Address</b>	Patrick.browne@tus.ie
<b>Links</b>	<a href="https://sites.google.com/view/tusai/past-events?authuser=0">https://sites.google.com/view/tusai/past-events?authuser=0</a>