

Course Outline

Title / Synopsis	Duration
<p>1. The Need for STEAM</p> <p>The arrival of automation has persuaded many leaders to emphasize the need for STEAM Education. How exactly is STEAM Education relevant?</p> <ul style="list-style-type: none"> • OECD 2030 • Job Polarization & the rise of AI • Challenges of AI • Reframing STEAM • Authentic assessment 	
<p>1. STEAM 的必要性</p> <p>自動化的到來促使許多領導人強調 STEAM 教育的必要性。STEAM 教育到底有什麼意義？</p> <ul style="list-style-type: none"> - 經濟合作暨發展組織 2030 - 就業兩極分化與人工智慧的興起 - 人工智慧的挑戰 - 重塑 STEAM - 真實評估 	
<p>2. DDMT as Instructional Model</p> <p>What is the DDMT Model and how can it help to foster competencies development in the curriculum?</p> <ul style="list-style-type: none"> • The origins of DDMT • Core design values • Integrating NGSS & Common Core • Sharing of case studies • Hands-on curriculum writing 	
<p>2. 作為教學模式的 DDMT</p> <p>什麼是 DDMT 模式，它如何促進課程中的能力發展？</p> <ul style="list-style-type: none"> - DDMT 的起源 - 核心設計價值 - 整合 NGSS 和共同核心 	

<ul style="list-style-type: none"> - 分享案例研究 - 課程編寫實踐 	
<p>3. Decoding the Digital Portfolio</p> <p>The importance of Digital portfolio has been emphasized countless times, by industry as well as academics. Learn how it to customize individual learning pathway.</p> <ul style="list-style-type: none"> • Purpose of digital portfolio (alternative assessment) • Enhancing Digital literacy • Identifying objectives and assessment • Hands-on activity 	
<p>3. 解碼數位化學習歷程</p> <p>數位化學習歷程的重要性已被業界和學術界無數次強調。瞭解如何利用它來定制個人學習路徑。</p> <ul style="list-style-type: none"> - 數位化學習歷程(替代評估)的目的 - 提高數位素養 - 確定目標和評估 - 實作活動 	
<p>4. Understanding Competencies & Rubrics</p> <p>Although many of us refer to competencies as 'soft skills' , yet we are pretty much inclined to assess it in a standardized way. In this module, learn about how rubrics can be utilized more effectively to measure soft skills.</p> <ul style="list-style-type: none"> • Understanding critical thinking • Creative Problem Solving • Integrating critical thinking into curriculum 	
<p>4. 瞭解能力和評分標準</p> <p>雖然我們中的許多人都將能力稱為 "軟實力"，但我們幾乎都傾向於以標準化的方式對其進行評估。在本模組中，我們將學習如何更有效地利用評分標準來衡量軟實力。</p> <ul style="list-style-type: none"> - 瞭解批判性思維 - 創造性地解決問題 - 將批判性思維納入課程 	

<p>5. Sustainability</p> <p>To ensure sustainable development, there is an urgent need to upskill the abilities of educators to ensure education for sustainable development as teachers form the foundation of quality Teaching & Learning. As educators are better prepared, this transcends down to their learners' abilities to stay relevant and employed in Industry 4.0 and beyond.</p>	
<p>5. 可持續發展</p> <p>為了確保可持續發展，迫切需要提高教育工作者的能力，以確保可持續發展教育，因為教師是高品質教學的基礎。隨著教育工作者做好更充分的準備，這也會影響到學習者的能力，使他們能夠在工業 4.0 及以後的時代保持相關性和就業能力。</p>	