**UNE L&T Symposium 2024 – Presentation Synopsis**

**1. Title of Presentation:**

Teaching Smarter in Exercise & Sports Science: Innovating Pedagogy, AI Integration, and Student Engagement

**2. Presenter(s) Name(s) and Affiliation(s):**

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**3. Main Takeaways:**

*1. Enhancing student engagement, optimising online learning, and meeting accreditation standards require an integrated approach to pedagogy, technology, and assessment.*

*2. A structured teaching framework supports continuous improvement and adaptation to the evolving educational landscape.*

**4. Application in Educational Contexts:**

***Teaching Methods:***

1. A consistent teaching framework across the course sets clear expectations for students and staff.
2. Interactive H5P modules integrate multimedia and formative assessments, reinforcing active learning and concept retention.

**Assessment:**

1. Standardised rubrics and feedback tools promote consistency and timely, constructive feedback.
2. Automated knowledge checks identify performance trends, allowing targeted instructional adjustments and support for at-risk students.

**Student Engagement:**

1. H5P interactive content (e.g., quizzes, branching scenarios, and interactive videos) fosters active learning and immediate feedback.
2. Gamified, self-paced activities within online modules increase participation and improve retention.

**Curriculum Development**

1. AI and adaptive learning tools align learning outcomes, content, and assessment.
2. Data-driven curriculum refinements enhance student engagement and academic performance through iterative improvements.

**5. Valuable Sources and References:**

NA

**6. Weakness and Area for Future Research:**

1. Student digital literacy varies, impacting the effectiveness of interactive learning tools. Future research should explore targeted digital skills training to improve accessibility.
2. Longitudinal data on AI-integrated teaching is limited. Further studies should assess long-term impacts on retention, critical thinking, and overall academic performance.

**Abstract**

The landscape of Exercise & Sports Science education is evolving, with online learning, student engagement, AI-driven assessment, and accreditation playing critical roles. This presentation explores how to optimise online learning, track and enhance student engagement, and align learning outcomes with content and assessment. Through an analysis of current teaching practices, we will introduce a structured teaching framework that integrates innovative pedagogy and technology. Emphasising evaluation and continuous improvement, this session provides practical strategies for educators to adapt to emerging challenges and opportunities, ensuring effective and engaging learning experiences in a rapidly changing educational environment.