**UNE L&T Symposium 2025 – Presentation Synopsis**

**1. Title of Presentation:**

Enhancing Online Biomedical Education with Interactive H5P Learning Tools: Impact, Insights, and Future Directions

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

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**3. Main Takeaways:**

***Takeaway 1:*** Using over 120 interactive H5P tools in online Physiology and Pathophysiology courses greatly improved student engagement, understanding, and feedback scores.

***Takeaway 2:*** H5P tools help different types of learners by using quizzes, branching scenarios, and videos. They turn static content into engaging, self-paced learning experiences.

**4. Application in Educational Contexts:**

***Teaching Methods:***

* Enables educators to present abstract biomedical concepts using branching, drag-and-drop, and interactive video tools.
* Supports flipped and blended teaching models through asynchronous, student-directed activities.

**Assessment:**

* Facilitates formative assessments with self-marking quizzes that deliver instant feedback.
* Enhances understanding before summative tests and enables tracking of learning outcomes through analytics.

**Student Engagement:**

* Boosts student motivation and participation, particularly for remote learners, by promoting active learning and immediate response.
* Improves satisfaction and perceived intellectual stimulation in fully online environments.

**Curriculum Development:**

* Adaptable for integration across multiple disciplines, including Nursing, Neuroscience, and Rural Health Medicine units.
* Enables scalable content reuse and customization for topic-specific or interdisciplinary learning needs.

**5. Valuable Sources and References:**

**Source 1:** https://h5p.org – Platform for creating, sharing, and reusing interactive HTML5 content.

**Source 2:** UNE myLearn Analytics and Power BI analysis – Internal dashboard indicating student engagement and completion rates of digital tools.

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

**Weakness:** Strategic implementation was done for high-impact topics due to concurrent teaching and research commitments. But progressive expansion is planned for other topics.

**Future Research:** Foundational interactive resources have been created to be implemented in other units across the Biomedical Science discipline for future expansion.