

# 以學生為本的新高中數學課程：延伸部分微積分的學與教

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新高中數學課程延伸部分的設計，是為針對不同學生將來的學習需要，提供更多的數學知識及技能。故此，延伸部分單元一的微積分領域強調數學的應用，以較為直觀的角度來處理微積分。而延伸部分單元二的微積分領域強調深入理解，學生須更深入認識微積分的內容，以備將來學習涉及較多數學知識的學科。

本講座的目的，是探討延伸部分的微積分領域設計，如何落實以學生為本的精神，達至數學學與教的更佳效果。

## *The Student-centred New Senior Secondary Mathematics Curriculum: Learning and Teaching Calculus in the Extended Part*

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The design of the Extended Part of the New Senior Secondary Mathematics Curriculum is to provide more mathematical knowledge and skills to suit different students' needs. In this regard, the Calculus Area in Module 1 emphasises mathematical applications. Students learn Calculus through a relatively intuitive approach. Module 2 emphasises deeper understanding of Calculus. Students need to understand the contents of Calculus in depth so that they can further progress in those mathematically inclined disciplines.

The objective of this talk is to investigate how the students-centred spirit is designed in the Calculus Area of the Extended Part to enhance better outcomes in the learning and teaching of mathematics.