

**INSTITUT SAINS MATEMATIK  
UNIVERSITI MALAYA  
SIRI KOLOKIUUM**

**Tajuk:** Fixed point theory in analysis and its applications

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**Abstract**

Fixed point theory is a rich, interesting and highly applied branch of mathematics. It is fully developed branch but still continues to be an active and very wide-open area of research. It is deeply concerned with the history of its subject. It is being pursued within several mathematical domains such as Classical Analysis, Functional Analysis, Topology, Operator Theory, and Algebraic Topology. Most of the theorems ensuring the existence of solutions for differential, integral operator, or other equations can be reduced to fixed point theorems.

The main objective of this Talk is to introduce the role of fixed point theory in analysis with some fundamental fixed point theorems and their applications to different fields.

**SEMUA DIJEMPUT HADIR**