Department of Mathematics
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Course	**Course Name**	**: Analysis II**
	Course Code	**: KM184601**
	Credit	**: 4**
	Semester	**: 6**

Description of Course

In this course, it is studied about the definition of the Riemann integrated function and the convergence of function sequences and function series also given the understanding of Topology in real space and continuous linear operator.

Learning Outcome

PLO 1	[C2] Students are able to identify and explain foundations of mathematics that include pure, applied, and the basic of computing
PLO 2	[C3] Students are able to solve simple and practical problems by applying basic mathematical statements, methods and computations

Course Learning Outcome

1. The student able to explain the principles of Riemann integral and its properties.
2. The student able to explain compact set and compact space
3. The student able to understand and explain the continue linear operator.

Main Subject

Riemann integral, the properties of integral Riemann, Calculus Fundamental Theorem, Darboux integral, sequence of function, series of function, open and closed set, compact set, metric space, Banach space, Hilbert space, and continue linear operator.

Prerequisites
Analysis I
Reference
1. Bartle,R,G.,Sherbert, 2010, ” Introduction to Riil Analysis, Fourth Edition. 2. Bryan P. Rynne and Martin A Youngson, 2001, Linier Functional Analysis
Supporting Reference