

MAS 710 - Continuous Methods

Aims and Objectives

Introduce fundamental concepts of real and complex analysis including measure theory.

Syllabus

Abstract integration (basic topology, general Lebesgue-like integrals and measures), positive Borel measures (Riesz representation theorem for positive linear functionals),

L^p -spaces, integration on product spaces, abstract differentiation, holomorphic functions.

Assessment

Examinations:	50%
Continuous Assessment:	50%

Prerequisites

Approval by the Division

Recommended Textbook & Reference

Rudin, Real and Complex Analysis