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