

MATH 455. HONOURS ANALYSIS 4.

Credits: 3

Offered by: Mathematics and Statistics (Faculty of Science)

This course is not offered this catalogue year.

Description

Review of point-set topology: topological spaces, dense sets, completeness, compactness, connectedness and path-connectedness, separability, Baire category theorem, Arzela-Ascoli theorem, Stone-Weierstrass theorem..Functional analysis: L^p spaces, linear functionals and dual spaces, Hilbert spaces, Riesz representation theorems. Fourier series and transform, Riemann-Lebesgue Lemma, Fourier inversion formula, Plancherel theorem, Parseval's identity, Poisson summation formula.

- Prerequisite: MATH 454 or equivalent.
- Restriction(s): Not open to students who have taken MATH 355.

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