MATH 565. FUNCTIONAL ANALYSIS.

Credits: 4

Offered by: Mathematics and Statistics (Faculty of Science)

This course is not offered this catalogue year.

Description

Review of the basic theory of Banach and Hilbert spaces, L^p spaces, open mapping theorem, closed graph theorem, Banach-Steinhaus theorem, Hahn-Banach theorem, weak and weak-* convergence, weak convergence of measures, Riesz representation theorems, spectral theorem for compact self-adjoint operators, Fredholm theory, spectral theorem for bounded self-adjoint operators, Fourier series and integrals, additional topics.

Winter

• Prerequisite(s): MATH 454 or MATH 564.

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