PURE MATHEMATICS 617
"ANALYSIS IV"

Calendar Description: H(3-0)
   Analysis in abstract spaces. Function spaces.

Prerequisite: Pure Mathematics 545.

Syllabus

Topics

$\mathcal{L}^p$-spaces and $\mathcal{L}^p$ spaces

Normed linear spaces, Hilbert spaces

Linear Functionals, Hahn-Banach Theorem

Operators, Spectra

Operators on Finite Dimensional Spaces

Spectral Theory in Infinite Dimensional Spaces

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