

Isfahan University of Technology
Department of Mathematical Sciences
Functional Analysis
Winter 2014

Instructor: S. M. Manjeagni

Contact Information:

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Office Hours: Saturday and Monday from 8:30 am to 10:30 am or by appointment.

Lectures: Sunday and Tuesday 8:00 am to 10:00 am. Department of Mathematical Sciences, Seminar room.

Text book: : Functional Analysis, Lecture Note by D. Farenick

Class Description: Banach Space, Banach Space in Classical Analysis, Duality, Hahn-Banach Theorem, Weak Topology, Second Dual, Weak* Topology, Subspaces of $C(X)$, The Dual of L^p , $1 \leq p < \infty$, The Radon-Nikodyn Theorem, Convex Combination, Extreme points and Faces, Geometry of the closed Unit Ball, and Hilbert Spaces.

Prerequisites: Real Analysis and Linear Algebra.

Marks: Final marks will be weighted as follows:

1. Assignments: 15%.
2. Midterm test: 35%.
3. Final exam: 50% .

Important Dates:

1. Midterm Test: TBA
2. Final Exam: 1392/03/25 from 8:30 am to 11:30

Good Luck