

MATH 580. ADVANCED PARTIAL DIFFERENTIAL EQUATIONS 1

Credits: 4

Offered by: Mathematics and Statistics (Faculty of Science)

This course is not offered this catalogue year.

Description

Classification and wellposedness of linear and nonlinear partial differential equations; energy methods; Dirichlet principle. Brief introduction to distributions; weak derivatives. Fundamental solutions and Green's functions for Poisson equation, regularity, harmonic functions, maximum principle. Representation formulae for solutions of heat and wave equations, Duhamel's principle. Method of Characteristics, scalar conservation laws, shocks.

- Restrictions: Not open to students who have taken MATH 586.
- Fall
- Prerequisites: MATH 475 or equivalent

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