

Partial Differential Equations

Code: 400330

Instructor: Prof. Dr. R.C.A.M. van der Vorst

Credits: 8 cp

Period: 1 and 2

Aim: Basic theory of linear partial differential equations

Content: In this course we develop the functional analytic theory of linear partial differential equations. The theory will be built up using standard examples such as the heat equation, the wave equation and the Poisson equation. Among the subjects are Sobolev spaces, Green's functions, maximum principles, regularity theory, etc.

Form of Tuition: Lectures and assignments

Literature: Course notes + book. L.C. Evans, Partial Differential Equations

Assessment: Via assignments

Target Audience: Masters Mathematics and Physics

Remarks: Course information on <http://www.few.vu.nl/~vdvorst/>
Registration three weeks prior to start course via
<http://www.mastermath.nl>