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In mathematics, a partial differential equation (PDE) is an

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equation which imposes relations between the various partial derivatives of a multivariable function. The function is often thought of as an "unknown" to be solved for, similarly to how  $x$  is thought of as an unknown number, to be solved for, in an algebraic equation like  $x^2 - 3x + 2 = 0$ . However, it is usually impossible to write down explicit formulas for solutions of partial differential equations.

*Partial differential equation - Wikipedia*

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or social sciences (financial markets, Black-Scholes model).

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Further he has completed online certification course “Mathematical methods and its applications” jointly with Dr. S.K. Gupta of the same department. He taught the course on “Integral equations and calculus of variations” several times to MSc (Industrial Mathematics and Informatics) students.

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develops that approach in the contexts of Hilbert space and numerical methods.

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