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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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Chapter 1 presents a full introduction to partial differential equations and Fourier series as related to applied mathematics. Chapter 2 begins with a more comprehensive look at the principal method for solving partial differential equations — the separation of variables — and then more fully develops that approach in the contexts of Hilbert space and numerical methods.

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