

## Brief Biography of the Supervisor

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Prof. Balram Dubey is Professor and Former Head of the Department of Mathematics, Birla Institute of Technology & Science, Pilani, Pilani Campus, India. He earned his Bachelor's Degree (B.Sc. Hons) with first rank of merit from Bhagalpur University, Bhagalpur, India in 1988. He received his Master's degree in 1990 and Ph.D. degree in 1994 from Department of Mathematics, Indian Institute of Technology Kanpur, Kanpur, India. He was Research Associate in IIT Kanpur from 1994-1995 and later he joined IIT Kanpur as visiting faculty during 2000-2002. He was awarded with "Best Teaching Award" for tutorship in MATH102 in 2001 at IIT Kanpur. Prof. Dubey served as Lecturer and Senior Lecturer in Department of Mathematics, Tezpur University, India during 1995-2000. There he guided two students. In 2002, he joined Department of Mathematics, Birla Institute of Technology & Science, Pilani, Pilani Campus as an Assistant Professor. He got promoted to Associate Professor in August 2010 and Professor in February 2013. His research interests are Mathematical Biology, Mathematical Ecology, Ecotoxicology, Soil Erosion and Conservation, Epidemiology, Mathematical Immunology, and Applications of ODEs & PDEs in Real world Problems. As a result of his research accomplishment, he has published more than 80 research articles in national and international journals of repute. He is also the author of the book "Introductory Linear Algebra", Asian Books Pvt. Ltd. 2007. He has successfully guided 4 Ph.D. students.

## **Brief Biography of the Candidate**

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Ankit Kumar earned his Bachelor's and Master's degree in Mathematics from University of Rajasthan, Jaipur in 2014 and 2016, respectively. After completing Master's, he got admission to Ph.D. program in Department of Mathematics, Birla Institute of Technology & Science, Pilani, Pilani Campus, India in January 2017 under the guidance of Prof. Balram Dubey. He has published 7 articles in peer reviewed international journals and presented 3 papers in national and international conferences. At present, he is a Senior Research Fellow under UGC, New Delhi, India.

