

## **Brief biography of the supervisor**

Dr. Rishikesh Vaidya is a faculty member of the Physics department, Birla Institute of Technology and Science, Pilani. He did his Ph.D. in theoretical particle Physics at the Physical Research Laboratory (PRL), Ahmedabad. He has held post-doctoral positions at PRL, National Central University, Taiwan, and the Tata Institute of Fundamental Research, Mumbai.

Apart from Physics, he has a keen interest in photography.

## Brief biography of the candidate

I did my integrated M.Sc.(Hons) Mathematics and M.Sc.(Hons) Physics at Birla Institute of Technology and Science (BITS) Pilani from 2005 to 2010. Thereafter I pursued M.Phil. in the Department of Theoretical Physics at the Tata Institute of Fundamental Research. I enrolled as a Ph.D. student in the Department of Physics, BITS-Pilani in August 2015 to study differential cohomology.

I am interested in Mathematical Physics, Algebraic Topology, and Differential Geometry. Apart from that, I have a keen interest in constitutional law and the Right to Information Act, 2005.