

### **Biographical Sketch of Dr. S. C. Martha**

Dr. S. C. Martha received his PhD in Mathematics from the Indian Institute of Technology Guwahati in 2007. He then spent 3 years at the Indian Institute of Science (IISc) Bangalore as an NBHM Postdoctoral Fellow. He joined IIT Ropar in 2010 and currently he is working as a Professor at IIT Ropar.

He works in applied mathematics and his present research interests are focused on the mathematical modeling of water wave scattering, hydrodynamic loading, fluid flow through porous medium, linear and nonlinear flow in multi-layered channels. Alongside the main theme, he also works on "numerical solution of Fredholm integral equations". Main working methods are mathematical modeling, analytical method and numerical simulation.

He has published 85 research papers, which include 5 book chapters, 13 conference proceedings, and 65 journal papers. 10 students have already been awarded PhD under his guidance, and 5 more are working under him. He has also guided 10 MSc students for their project dissertations. He mentored 2 Post-doc students under DST N-PDF, who are now working in reputed institutes. He has also guided many summer interns from other institutes.

He was nominated as a Member of NASI (National Academy of Sciences, India) in May 2022. He is a Member of the School Research Board of Vignan's Foundation for Science, Technology and Research University (Deemed to be University), Vadlamudi, Guntur Dist., Andhra Pradesh. He was a member of the Vidyalyaya Management Committee, Kendriya Vidyalyaya IIT Ropar during 2021-24. He has been awarded sponsored research projects from DST as well as from IIT Ropar. He received the Prof. Ghanashyam Samal Best Presentation Award in the 36th Annual Conference of the Orissa Mathematical Society in 2009 and the Postdoctoral Fellowship by the National Board for Higher Mathematics, India in 2007.

He has delivered more than 50 invited talks in different conferences and seminar series. He is a reviewer of more than 25 international journals. He has reviewed 13 PhD theses of other institutes/universities. He has organized 4 workshops and 1 conference.

He has also worked as an external expert in many outreach activities such as: (i) he worked as a Jury Member in the Young Scientists Conference of the 6th India International Science Festival 2020; (ii) he acted as a Judge in different refresher courses; (iii) he acted as an external expert for PhD viva-voce exams, and JRF to SRF, etc. He has visited many universities including ETH Zurich, Switzerland; University of Zurich, Switzerland; Shanghai University, Shanghai; Shanghai Jiao Tong University, Shanghai; University of Melbourne, etc.

He is a member of many other societies such as: Annual Member of the American Physical Society during 2012-2013; Life Member of the Indian Mathematical Society; Life Member of the Indian Society of Theoretical and Applied Mechanics; Life Member of the Orissa Mathematical Society; Life Member of the Society for Special Functions and their Applications.

He has taken many important responsibilities at the institute, such as Head of the Department of Mathematics during 2016-2019, Chairman, Council of Wardens during 2019-2021, and Associate Dean, Student Affairs at IIT Ropar during 2021-2023.