

Dr. S.P. Tiwari

Professor

Department of Mathematics & Computing
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Academic Qualification

- Ph.D., BHU, Varanasi, 2005.
- M.Sc., Dr. R.M.L. Avadh University, Faizabad, 2000.

National Level Test

- Qualified Graduate Aptitude Test for Engineering (GATE), 2003.
- Qualified NET (CSIR-UGC) Examination 2002.

Employment Details

- Professor, IIT(ISM) Dhanbad (12.04.2021-till date).
- Associate Professor, IIT(ISM) Dhanbad (12.09.2010-11.04.2021).
- Assistant Professor, IIT(ISM) Dhanbad (12.09.2007-11.09.2010).
- Lecturer, G.L.B.I.T.M., Greater Noida (19.07.2005- 10.09.2007).

Research Interest

- Topology, Category Theory and Fuzzy Automata Theory.

Research Credentials

- No. of published research papers: 82
 - Journals: 67
 - Proceedings: 15
- No. of Ph.D's guided: 13.

Project Guidance

- M. Tech (Mathematics & Computing): 15
- M. Sc. (Mathematics & Computing): 30

Sponsored Projects

- DST SERB Project in Mathematical Sciences under MATRICS (Duration: February, 2020-February, 2023; Amount: Rs. 6,60,000/-).
- DST SERB Project in Mathematical Sciences (Duration: September, 2018-August, 2021; Amount: Rs. 16,86,520/-).
- DST FIST project for Department of Applied Mathematics (Duration: April, 2013-March, 2018; Amount: Rs. 35,00,000/-).
- CSIR Major Project in Mathematical Sciences (Duration: May, 2010-April, 2013; Amount Rs. 9,51,000/-).
- ISM Minor Research Project (Duration: July, 2008 - June, 2010; Amount Rs. 75,000/-).

NPTEL course

- Offered NPTEL course on Essentials of Topology

Organized Training Programmes & Conferences

- **GIAN courses sponsored by MHRD**
 - Coordinator, course on “Insight into Fuzzy Modeling: Reasoning in Fuzzy Natural Logic and its Applications”, October 23-27, 2017 (Speaker: Prof. Vilem Novak).
 - Coordinator, course on “Inverse problems in fuzzy approximation spaces with applications in computer vision”, October 23-27, 2017 (Speaker: Prof. Irina Perfilieva).
- **Courses sponsored by DST**
 - Coordinator, Training program on Mathematical Methods with Applications, March 14-20, 2023.
 - Coordinator, STUTI on Mathematics for Machine Learning, September 19-25, 2022.
 - Coordinator, INSPIRE Internship Camp, December 15-19, 2015.
 - Coordinator, Undergraduate Training Programme in Linear Algebra and Analysis, May 28-June 6, 2012.
- **MTTS Camps**
 - Local Coordinator, Level O camp of the Mathematics Training and Talent Search (MTTS) Programme, May 29-June 24, 2023.
- **Conferences**
 - Organizing Secretary, 80th Annual Conference of the Indian Mathematical Society, December 27-30, 2014.
 - Organizing Secretary, National Conference on Recent Advances in Mathematics and its Applications, February 14-16, 2013.

Lectures

- Delivered an invited lecture in 27th International Conference of International Academy of Physical Sciences on Recent Advances in Differential Geometry and Topology organized by Central University of Punjab, Bhatinda, October 26-28, 2021.
- Delivered an invited lecture in 3rd International Conference on Trends in Computation & Cognitive Engineering organized by UTHM Malaysia, October 21-22, 2021.
- Delivered an invited lecture in Faculty Development Program on Mathematics and its Application in Science & Engineering organized by Shri Mata Vaishno Devi University, September 27-October 01, 2021.
- Delivered an invited lecture in Interdisciplinary Refresher Course on Science and Technology (Faculty Development Program) organized by Mizoram University, Mizoram, September 28- October 11, 2021.

- Delivered an invited lecture in Webinar on Topological Data Analysis organized by DST CIMS BHU student Chapter, BHU, Varanasi, August 11, 2021.
- Delivered an invited lecture in the 86th Annual Conference of the Indian Mathematical Society, December 17-20, 2020.
- Delivered an invited lecture in the E-lecture series organized by Mahatma Gandhi Central University, Motihari, Bihar, July 09, 2020.
- Delivered an invited lecture in the International Online Workshop on New Trends in Fuzzy and Rough Set Theory and Applications organized by Manipal University Jaipur, Jaipur, September 25-29, 2020.
- Delivered an invited lecture at Universiti Tun Hussein Onn Malaysia, June 01, 2017.
- Delivered an invited lecture at Institute for Research and Applications of Fuzzy Modeling, Ostrava, Czech Republic, June 10, 2015.
- Delivered lectures on linear algebra in the Under graduate training program in Mathematics, at IIT Patna during May 10-20, 2011.
- Delivered an invited lecture in the workshop Latest Trend in Advanced Computing with Special Focus on Generalized Modelling Approach to Logistic Regression organized by Department of Mathematics & Statistics Dr. Ram Manohar Lohia Avadh University, Faizabad during Dec. 26-27, 2011.

Foreign visit

- Attended the 11th Conference of the European Society for Fuzzy Logic and Technology organized jointly with the IQSA Workshop on Quantum Structures, Prague, Czech Republic, during September 9-13, 2019
- Visited Universiti Tun Hussein Onn Malaysia during May 31-June 02, 2017 as a Visiting Professor.
- Visited Institute for Research and Applications of Fuzzy Modeling, Ostrava, Czech Republic, during June 01-15, 2015 for research collaboration.

Professional Recognition

- Board Member, European Society for Fuzzy Logic and Technology, 2017-2021.
- Council Member, Indian Mathematical Society.

Membership

- Life Member of Indian Mathematical Society.
- An Affiliate Member of American Mathematical Society.
- Member of European Society for Fuzzy Logic and Technology.
- Member of International Rough Set Society.

**Responsibilities
at IIT(ISM)**

• **Current Responsibilities**

- Head, Department of Mathematics & Computing
- Chairperson, Time-Table Core Committee.

• **Past Responsibilities**

- Convener, DPGC, 2022-2024
- Dean (Administration), 2021-2022.
- Dean Administration (Acting), 2020-2021.
- Associate Dean (Hostel Management), 2018-2022.
- Member, Academic Review Committee.
- Convener, DUGC.
- Secretary, DAC.
- Member, DFSC
- Member, Health Centre Purchase Committee.
- Member, House Allotment Committee, 2014-2016.
- Assistant In-charge, M. Tech/ M Phil Admission 2009-2010.
- Member, M. Tech/ M Phil Admission Committee 2013.
- Member, M. Tech. Admission Committee, 2014-2016.
- Member, M.Sc./M. Sc. Tech Admission Committee 2017.
- Member, Research Council.
- Warden, Coordinating Foreign Students, 2014-2018.
- Course Coordinator, Students sponsored by Ministry of Islamic Republic of Afghanistan, 2013-2018.
- Faculty In-charge (T&P), 2014-2018.
- Course Coordinator, Integrated M. Tech (M&C), 2014-2018.
- Course Coordinator, Integrated M. Sc. (M&C), 2010-2013.
- Member, Moderation Board.
- Member, DRC.
- Member, IIT(ISM) Industry Institute Interaction Facility, New Delhi.

**Key initiative at
IIT(ISM))**

- Online No-dues for the students.
- Online allotment of rooms in Hostels.
- Initiation towards online application for M.Tech. admission.
- Implementation of MEA (Ministry of External Affairs) guidelines for foreign students.

Reviewer's

- Fuzzy Sets and Systems (Elsevier Sciences).
- IEEE Transactions on Fuzzy Systems.
- Information Sciences (Elsevier Sciences).
- Soft Computing (Springer).
- International Journal of Approximate Reasoning (Elsevier Sciences).
- International Journal of Computational Intelligence Systems.
- The Journal of the Indian Mathematical Society.
- Mathematics Student.
- International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (World Scientific).
- IEEE Transactions on Systems, Man, and Cybernetics-Part A: Systems and Humans.
- Computers & Mathematics with Applications (Elsevier Sciences).
- Knowledge-Based Systems (Elsevier Sciences).
- Journal of Applied Mathematics and Computing (Springer).
- International Journal of Machine Learning and Cybernetics (Springer).
- Iranian Journal of Fuzzy Systems.
- International Journal of Computing Science and Mathematics.
- African Journal of Mathematics and Computer Science Research.