
Curriculum Vitae

Sumixal Sood

Assistant Professor (Mathematics)
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Father's name:

Sh. Satish Sood

Date of Birth:

05/04/1992

Permanent Address:

**Village & P.O. Upper Lambagaon, Tehsil Jaisinghpur,
Distt. Kangra, (HP), PIN-176096, India**

Designation:

Assistant Professor (Mathematics) since 2018

Academic Qualifications:

- **Pursuing Ph. D. (Mathematics)** HPU Shimla
- **M.Phil. (Mathematics)** HPU Shimla (2015)
- **M.Sc. (Mathematics)** Himachal Pradesh University, Shimla (2014)
- **B.Sc. (Non-Medical),** Himachal Pradesh University, Shimla (2012)

Achievements:

- Qualified SET (Mathematics), Himachal Pradesh, 2015.
- 1st in M.Sc. (Mathematics) in HPU 2012-14.
- 2nd in M.Phil. (Mathematics) in HPU 2014-2015.
- Captain of Inter-College Chess Team, Govt. College Sanjauli for the time period of 2 years.

Fellowship/Incentive:

- UCG-SAP DRS-II Project Fellow from Dec 2015 to August 2018.

Research Interest:

- Hydrodynamical Stability
- Hydromagnetic Stability
- Non-linear Stability Analysis
- Published **06 research papers** in various international journals.

Member of Academic Bodies:

- Life Time member of HIMS (Himachal Mathematical Society)

Teaching Experience:

- Worked as a Teacher fellow in the Department of Mathematics, HPU Shimla from 2016 to 2018.
- Worked as a Teacher fellow in the Department of Chemistry, HPU Shimla in 2015.
- Teaching BSc Mathematics since 2018 (experience of more than 5 years) in the department of higher education HP Govt.

List of Conferences/Seminars/Workshops Presented/Attended:

- Attended “National Seminar on New Dimensions in Mechanics and Allied Fields” at Department of Mathematics & Statistics, Himachal Pradesh University (Shimla), Himachal Pradesh on 27-28 November, 2015, India.
- Attended “**National Seminar on Algebra and its Applications**” organized by Department of Mathematics & Statistics, Himachal Pradesh University (Shimla), Himachal Pradesh, India on 26 March, 2016.
- Presented a paper entitled “**Overstable Solution of Thermal Convection Problem with Viscoelastic Fluid**” in “**National Conference on Advances in Mathematical Sciences (NCAMS-2016)**” organized by Department of Mathematics, Netaji Subhash Chander Bose Memorial Government College Hamirpur, Himachal Pradesh, India on 21-22 December, 2016.
- Presented a paper entitled “**On the Oscillatory Convective Instability of Viscoelastic Fluid Layer**” in “**National Seminar on Algebra and Allied Fields**” organized by Department of Mathematics & Statistics, Himachal Pradesh University (Shimla), Himachal Pradesh, India on 24-25 March, 2017.

- Presented a paper entitled “**Stability Analysis of a Rotating Two-Dimensional Thermohaline Convection Problem in a Viscoelastic Fluid Layer**” in “**National Conference on Reaching the Unreached through Science and Technology**” organized by Indian Science Congress Association Shimla Chapter, Himachal Pradesh University (Shimla), Himachal Pradesh, India, under the aegis of Indian Science Congress Association, Kolkata on 30-31 March, 2018.
- Presented a paper entitled “**Linear and Weakly Non-linear Stability Analysis of Modified Thermohaline Convection Problem**” in “**International Conference on Algebra and Continuum Mechanics**” organized by Department of Mathematics & Statistics, Himachal Pradesh University (Shimla), Himachal Pradesh, India on 23-25 November, 2018.
- Presented a paper entitled “**Stability Analysis of Thermohaline Convection Problem in a Rotating Viscoelastic Fluid Layer**” in “**International Conference on Mathematics in Space and Applied Sciences (ICMSAS-2019)**” organized by Department of Mathematics, Netaji Subhash Chander Bose Memorial Government College Hamirpur, Himachal Pradesh, India on 29-30 November, 2019.
- Attended “**International Workshop on Srinivasa Ramanujan: The Man Beyond Infinity**” organized by Srinivasa Ramanujan Department of Mathematics, Centre for Vedic Mathematical Studies, Central University of Himachal Pradesh, Dharamshala (Kangra), Himachal Pradesh on 22 December 2020.
- Presented a paper entitled “**New National Education Policy 2020 for School and Higher Education**” in “**NEP 2020: Challenges, Suggestions and Implementation**” organized by KDC Govt. Degree College, Jaisinghpur, Kangra, Himachal Pradesh, India on 24 March, 2021.
- Presented a paper entitled “**Modified Stability Analysis of Double-Diffusive Convection in Viscoelastic Fluid Layer Saturating Porous Media**” in “**International Conference on Recent Trends in Mathematics (ICRTM-2021)**” organized by Himachal Mathematics Society (HIMS), Department of Mathematics and Statistics, Himachal Pradesh University (Shimla), Himachal Pradesh, India on 6-7 September, 2021.
- Presented a paper entitled “**Linear and Weakly Non-Linear Analysis of Thermohaline Stability with Cross-Diffusion Effect under Gravity Modulation**” in “**International Conference on Recent Advances in Mathematical Sciences (ICRAMS-2023)**” organized by Department of Mathematics and Statistics, Himachal Pradesh University (Shimla), Himachal Pradesh, India in collaboration with Himachal Mathematics Society (HIMS) on 29-30 March, 2023.

List of Publications

- Dhiman, J. S., Sood, S., Stability analysis of thermohaline convection problem in a rotating viscoelastic fluid layer, Proceeding of International Conference on Mathematics in Space and Applied Sciences 1 (2019) 59-69.
- Dhiman, J. S., Patil, P. M., Sood, S., Modified stability analysis of double-diffusive convection in viscoelastic fluid layer saturating porous media, Heat Transfer (Wiley) 55 (2) (2022) 1497-1528. **Impact Factor 3.6**
- Dhiman, J. S., Sood, S., Linear and weakly non-linear modified stability analysis of thermohaline convection under gravity modulation, HPU Journal of Physical Sciences, 1 (2021) 231-248.
- Dhiman, J. S., Sood, S., Linear and weakly non-linear oscillatory convection in rotating ferrofluid layer, Applied Mathematics and Computation 430 (2022) 1-16. **Impact Factor 4**
- Dhiman, J. S., Sood, S., Oscillatory convection in viscoelastic ferrofluid layer: linear and non-linear stability analysis, Applied and Computational Mechanics (2023) (Accepted for Publication). **Impact Factor 0.61**
- Dhiman, J. S., Sood, S., Linear and weakly non-linear analysis of thermohaline stability with cross-diffusion effects under gravity modulation, Recent Advantages in Mathematical Sciences 1 (2023) 95-104. ISBN: 978-93-89817-99-7