

Dr. Shashi Kant

Assistant Professor, Department of Mathematics

Indian Institute of Information Technology Ranchi, Jharkhand-834010

PERSONAL DETAILS



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Present Address: Department of Mathematics, IIIT Ranchi Jharkhand

TEACHING EXPERIENCES

- Assistant Professor, Department of Mathematics, Indian Institute of Information Technology Ranchi, Jharkhand since 6th January, 2022.
- Assistant Professor (NPIU, TEQIP-III), Department of Mathematics, Harcourt Butler Technical University, Kanpur Uttar Pradesh from 5th Sept-2018 to 5th Jan-2022.
- Assistant Professor (NPIU, TEQIP-III), Department of Mathematics, Birla Institute of Technology, Mesra, Ranchi Jharkhand from 4th Jan-2018 to 4th Sept-2018.

ADMINISTRATIVE RESPONSIBILITIES:

- Nodal officer “Swayam Plus” an initiative by ministry of education since 7th October, 2024.
- Member in Building and Works Committee, IIIT Ranchi since 20th August, 2024.
- Nodal Officer “Swachhata Hi Seva” 14th September to 1st October, 2024.
- Convenor, Swachhata Pakhwada September 1-15, 2024.
- Faculty In-Charge Campus Administration since 20th August, 2024.
- Faculty In-Charge Academic Affairs since 7th August, 2024.
- Hostel warden (Khelgaon Campus), IIIT Ranchi since 18th August, 2023.

- Hostel warden (JUT Campus), IIT Ranchi from 4th April, 2022 to 5th January, 2023.
- First year coordinator (B.Tech), IIT Ranchi from 4th April, 2022 to 5th January, 2023.
- Member in an Anti- Ranging Committee, HBTU Kanpur.
- Member in Disciplinary Committee, HBTU Kanpur.

SCHOLASTIC ACHIEVEMENTS

- AIR 86 in **IIT JAM-2010**, exam conducted by **IIT Madras** for the post graduate admissions in IITs.
- AIR 57 in **GATE-2013**, exam conducted by **IIT Bombay** for the admissions to M. Tech and PhD.
- AIR 83 in **CSIR NET-JRF**, December-2014.
- AIR 45 in **CSIR NET-JRF**, June-2014.
- AIR 85 in **CSIR NET-JRF**, December-2015.
- AIR 87 in **CSIR NET-JRF**, June-2016.

ACADEMIC BACKGROUND

Indian Institute of Technology (BHU) Varanasi, UP India-221005

Department of Mathematical Sciences

Doctor of Philosophy (**PhD**) in **Mathematics** (2018)

Thesis Title: Study on Non-Fourier Heat Conduction Thermo-Mechanical Problems

Indian Institute of Technology Delhi, New Delhi India-110016

Department of Mathematics

Master of Science (**M.Sc.**) in **Mathematics** (2013)

Project: Stochastic analysis of crop insurance, Since July-2011 to June-2012

Percentage: 66.89%

Chhatrapati Sahu Ji Maharaj University, Kanpur India-208005

Dayanand Anglo Vaidic College, Civil Lines Kanpur-208003

Department of Sciences

Bachelor of Science (**B. Sc.**) in Mathematics, Physics, Chemistry (2010)

Result: 66.74

UP Board Allahabad, Uttar Pradesh India

Intermediate (12th): (2007), Result: 69.20% High

School (10th): (2005), Result: 70.67%

PUBLICATIONS

1. Vijay Kumar Saw and **Shashi Kant**: A comprehensive approach of Caputo space fractional bioheat model during hyperthermia based on fractional Chebyshev collocation scheme, **Iranian Journal of Science (Springer)**, <https://doi.org/10.1007/s40995-024-01705> (2024), **SCI**.
2. **Shashi Kant** and Santwana Mukhopadhyay: Investigation on effects of stochastic loading at the boundary under thermoelasticity with two relaxation parameters, **Applied Mathematical Modelling (Elsevier)**, 648-669 54 (2018), **SCI, Impact Factor (2.35)**.
3. **Shashi Kant** and Santwana Mukhopadhyay: A detailed comparative study on responses of some heat conduction models for an axi-symmetric problem of coupled thermoelastic interactions inside a thick plate, **International Journal of Thermal Sciences (Elsevier)**, 196-211 117(2017), **SCI, Impact Factor (3.61)**.
4. **Shashi Kant** and Santwana Mukhopadhyay: Investigation of a problem of an elastic half subjected to stochastic temperature distribution at the boundary, **Applied Mathematical Modelling (Elsevier)**, 492-518 46 (2017), **SCI, Impact Factor (2.35)**.
5. Anil Kumar, **Shashi Kant** and Santwana Mukhopadhyay: An in depth investigation on plane harmonic waves under two temperature Thermoelasticity with two relaxation time parameters, **Mathematics and Mechanics of Solids (Sage)**, 191-209 22(2) (2017), **SCI, Impact Factor (2.95)**.
6. **Shashi Kant** and Santwana Mukhopadhyay: An investigation on coupled thermoelastic

interactions in a thick plate due to axi-symmetric temperature distribution under an exact heat conduction with a delay, **International Journal of Thermal Sciences (Elsevier)**, *159-173 110 (2016)*, **SCI, Impact Factor (3.61)**.

7. **Shashi Kant**, Manushi Gupta, Om Namha Shivay and Santwana Mukhopadhyay: An investigation on a two dimensional problem of Mode-I crack in a thermoelastic medium, **Journal of Applied Mathematics and Physics** (Springer), Jan-2018 (**Accepted**) , **SCI, Impact Factor (1.65)**.
8. **Shashi Kant** and Santwana Mukhopadhyay: An investigation on responses of thermo-mechanical load inside an infinitely extended thick plate under thermoelasticity with memory dependent derivatives, **Mathematics and Mechanics of Solids** (Sage), Jan-2018 (**Accepted**), **SCI, Impact Factor (2.95)**.

PAPERS PRESENTED IN CONFERENCES

1. **6th China India Japan Korea** Mathematical Biology Colloquium cum Conference, **IIT Kanpur** August 23-26, 2017.
2. **International Conference** on recent Advances in PDE: Theory, Computations and Applications, Dept. of Math **IIT Bombay** June 8-10, 2017.
3. **International Conference** on the Indian Mathematics Consortium (TIMC) in Corporation with the American Mathematical Society (AMS), **DST (BHU)** December 14-17, 2016.
4. **International Conference** on Applications of Mathematics in Topological Dynamics, Physical, Biological and Chemical Systems, **Calcutta Mathematical Society**, December 09-11, 2016.
5. **International Conference** on Mathematical Modeling and Simulation, Department of Mathematics, Institute of Science, **BHU** August 29-31, 2016.
6. **32nd Annual National Conference** of the Mathematical Society BHU on Recent Trends in Mathematical Analysis and its Applications, Department of Mathematics, **BHU**, February 17-18, 2017.

PARTICIPATION IN WORKSHOPS

1. **Faculty Training** on “Data Science and Analytics” organized by **IIT Indore**, March 02-12, 2020.
2. **Short Term Training Program on** “Data Science and SPSS Software” Organized by **HBTU, Kanpur**, October 20-24, 2019.
3. **Short Term Training Program** on “Mathematical Modeling and Solid Mechanics” organized by **IIT (BHU), Varanasi**, September 09-15, 2019
4. **Advanced Digital Pedagogy** Program organized by **KIT, IIT Kanpur**, June 03-07, 2019.
5. **Faculty Development Program** Organized By **TLC, IIT Madras**, Jan-30, 2018 to Feb-04, 2018.
6. **Poster Presentation** in the Institute Day of **IIT (BHU)**, April 02-03, 2016.
7. Attended the Course “**Fluid Dynamics and Applications**” Organized by Global Initiative for Academic Networks (GIAN) in the Department of Physics, **IIT (BHU)**, Varanasi, September 12-22, 2016.
8. **National Program** on Differential Equations: Theory, Computation and Applications (NPDE-TCA), Organized by Department of Mathematics, **IIT Bombay** and **IIT Kanpur**, 18thMay – 04th June, 2015.
9. **National Workshop** on Mathematical Modeling and Computer Simulation, Organized by **TLC, IIT (BHU)**, Varanasi, March 20-21, 2015.

ORGANISED:

1. Webinar on “**Modeling and Simulation**” in the memory of Srinivasa **Ramanujan** on 22nd December, 2020.
2. Online Students Training on “**Data Science and Analytics**” sponsored by **NPIU-MHRD** and students are certified by **NASSCOM**, from 18th September, 2020 to 4th October, 2020.
3. Short Term Training Program on “**Data Science and SPSS Software**”, October 20-24, 2019.
4. **Diagnosis test** for 1st year B.Tech students of HBTU Kanpur in August 2019.