Curriculum Vitae

DR. BISHWANATH PRASAD

Ph.D. (IIT (ISM), Dhanbad - India)

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Present Position: Assistant Professor (Need Based) (Since Sep.10, 2024)
Dept. of Mathematics
K.B. College, Bermo
A constituent unit of B.B.M.K. University, Dhanbad

Ph.D. Topic: Theoretical Study of Elastic Wave Propagation in Inhomogeneous, Thermoelastic and Visco-Elastic Layered Media

Supervisors: Prof. P.C. Pal & Dr. S. Kundu,
Dept. of Mathematics & Computing, IIT (ISM), Dhanbad, Jharkhand-826004 (India)

ACADEMIC DEGREES:

Course	Year of Passing	Subject	Board/College/ University	Marks [%]	Class/ Division
Ph.D.	2018	Applied Mathematics (Theoretical Seismology)	IIT (ISM), Dhanbad	-	-
M.Phil.	2013	Applied Mathematics	ISM, Dhanbad	8.66 (OGPA)	First
M.Sc.	2008	Mathematics	PKRMC, Dhanbad (VBU, Hazaribag)	70.81 %	First
B.Sc. (Hons)	2005	Mathematics	PKRMC, Dhanbad (VBU, Hazaribag)	71.50 %	First
Intermediate	2002	Mathematics, Physics, Chemistry, English, Hindi, Library Science	PKRMC, Dhanbad (JIEC, Ranchi)	59.11 %	Second
Matriculation	2000	--	BSEB, Patna	61.00 %	First

AWARDS/ SCHOLARSHIPS/ACHEIVEMENTS:

- **UGC-BSR Fellowship** during Ph.D.
- **M.Phil. Scholarship -** ISM, Dhanbad
- **GATE (Mathematics) - 2013**
- **Rank 1** in All India M.Phil. (Applied Mathematics) written entrance examination, 2012 of ISM, Dhanbad
- **Rank 3** in College M.Sc. examination
- **Rank 3** in College B.Sc. (Mathematics Hons.) examination

RESEARCH / TEACHING AREAS:

Research Interest	Teaching Interest
Applied Mathematics, Theoretical Seismology, Wave Propagation, Solid Mechanics, Mathematical Modelling, Abstract Algebra	Linear Algebra & Matrices, Modern Algebra (Group & Ring Theory), Ordinary Differential Equations, Partial Differential Equations, Numerical Analysis, Laplace Transform, Complex Analysis

MEMBERSHIPS IN SCIENTIFIC ORGANIZATIONS:

- Life member of '**SOCIETY OF APPLIED MATHEMATICS**', IIT (ISM), Dhanbad, Jharkhand, India
  Life Membership No.- LM/2016-2017/86

OTHER ACADEMIC ACTIVITIES/RESPONSIBILITIES:

- Serving as manuscript **reviewer** for **"Mathematical Modelling and Analysis"** Journal.
- Served as **rapporteur** for the technical session (Mathematics) in the National Conference on Multi-Disciplinary Research & Innovation for Sustainable Development (NCMRISD 2023) during July 7-8, 2023 *organized* by IQAC & Research cell, Netaji Subhas University, Jamshedpur.
- Serving as the **member** of following Committees/Cells at K.B. College, Bermo
  1. Library Committee
  2. Research, Development and Publication Cell
  3. Academic Advisory Committee
  4. Swachhata Abhiyan Committee
  5. NAAC Committee
  6. NEP Cell

ACADEMIC CONFERENCE ATTENDED/PRESENTATIONS:

International:

1. Attended "International Conference on Future Challenges in Earth Sciences for Energy & Mineral Resources (ESEMR-2013)" during Nov. 14-16, 2013 *organized by* Department of Applied Geology, ISM, Dhanbad and presented a paper entitled "*Reflection and transmission of SH-waves through a self-reinforced elastic layer embedded between two transversely isotropic inhomogeneous elastic half-spaces*".

2. Attended "International Conference on Applications of Fluids Dynamics (ICAFD-2016)" during Dec. 19-21, 2016 *organized by* Department of Applied Mathematics, ISM, Dhanbad in association with Fluid Mechanics Group, Department of Mathematics, Faculty of Science, University of Botswana, Gaborone, Botswana.

3. Attended "13th International Conference on Vibration Problems (ICOVP-2017)" during Nov. 29, 2017 – Dec. 2, 2017 *organized jointly by* Department of Civil Engineering, Indian Institute of Technology, Guwahati, India and IŞIK University, Istanbul, Turkey and presented a paper entitled "*Love wave propagation in an anisotropic viscoelastic layer over an initially stressed inhomogeneous half-space*".

4. Attended "International Conference on Mathematical Modeling in Public Health and Epidemiology (ICMMPHE-2023)" on Nov. 09, 2023 *organized by* Department of Mathematics, Faculty of Education, Phuket Rajabhat University, Thailand.

5. Attended "International Conference on Theory and Applications of Mathematics (ICTAM-2024)" during Sep. 28-29, 2024 *organized by* Tripura Mathematical Society, Agartala.

6. Attended "International Conference on Multidisciplinary Aspects in Mathematics and its Applications (ICMAM Latin America - 2024)" during Oct. 14-18, 2024 *organized at* Pontificia Universidad Javeriana - Cali, Colombia.

7. Attended "ISAAC-ICMAM Conference of Women in Mathematics 2024" during Nov. 27-29, 2024 *organized by* the International Society for Analysis, its Applications and Computation and the International Community of Mathematicians from Latin America.

8. Attended "ICMAM Satellite Conference in Analysis and PDE" during July 14-18, 2025.

9. Attended "ICMAM Latin America Satellite Conference on Differential Geometry" during Sep. 25-26, 2025.

National:

1. Attended "National Conference on Recent Advances in Mathematics and its Applications (RAMA-2013)" during Feb. 14-16, 2013 *organized by* Department of Applied Mathematics, ISM, Dhanbad.

2. Attended "80th Annual Conference of The Indian Mathematical Society" during Dec. 27-30, 2014 *organized by* Department of Applied Mathematics, ISM, Dhanbad.

3. Attended "National Conference on Wave Mechanics and Vibrations (7th WMVC-2015)" during Dec. 21-23, 2015 *organized by* Department of Applied Mathematics, ISM, Dhanbad.

4. Attended "National Conference on Multi-Disciplinary Research & Innovation for Sustainable Development (NCMRISD-2023)" during July 7-8, 2023 *organized* by IQAC & Research cell, Netaji Subhas University, Jamshedpur.

5. Attended "National Conference on Recent Developments in Mathematics and Allied Sciences with Applications in Agriculture and Technology" during December 22-23, 2025 *organized* by faculty of Mathematics, SVPUAT, Meerut.

WORKSHOP/SYMPOSIUM ATTENDED:

1. Participated in Science Academy's Lecture Workshop on "Concept of Fluid Dynamics and its Applications (CFDA-2014)" during October 8-10, 2014 *organized by* Dept. of Applied Mathematics, ISM, Dhanbad.

2. Participated in "Research Scholars Meet-2014 (RSM-2014)" on February 28, 2014 *organized by* ISM, Dhanbad.

3. Participated in "Workshop on High Performance Computing (WHPC-2015)" during July 29-31, 2015 *Jointly organized by* Dept. of Applied Mathematics, ISM, Dhanbad and Centre for Development of Advance Computing (C-DAC), Pune University Campus, Ganeshkhind, Pune.

4. Participated in Short Term Advance Training Programme on "Integral Transformations, Distributions and Wavelet Analysis" during Dec. 14-18, 2015 *organized by* Dept. of Applied Mathematics, ISM, Dhanbad.

5. Participated in Workshop on "Computational Methods for Engineers and Scientists (WCMES-2015)" during Dec. 24-28, 2015 *organized by* Dept. of Applied Mathematics, ISM, Dhanbad.

PUBLICATION DETAILS:

Papers in International Journals:

1. **B. Prasad**, P.C. Pal and S. Kundu, Propagation of SH-waves through non planar interface between visco-elastic and fibre-reinforced solid half-spaces, *Journal of Mechanics* (Cambridge), 33(4): 545-557 (2017), DOI: 10.1017/jmech.2017.14 (**SCI Expanded**)

2. **B. Prasad**, P.C. Pal and S. Kundu, Shear waves through non planar interface between anisotropic inhomogeneous and visco-elastic half-spaces, *Journal of Solid Mechanics* (Islamic Azad University-Arak Branch), 10(3): 637-654 (2018) (**Scopus**)

3. **B. Prasad**, S. Kundu and P.C. Pal, Impact of initial stress on reflection and transmission of SV-wave between two orthotropic thermoelastic half-spaces, *Journal of Solid Mechanics* (Islamic Azad University-Arak Branch), 11(4): 778-789 (2019), DOI: 10.22034/jsm.2019.572416.1307 (**Scopus**)

4. S. Gupta, P. Pati and **B. Prasad**, Generation of Love wave in a media with temperature dependent properties over a heterogeneous substratum, *Journal of Solid Mechanics* (Islamic Azad University-Arak Branch), 11(3): 513-522 (2019), DOI: 10.22034/JSM.2019.666700 (**Scopus**)

5. **B. Prasad**, S. Kundu, P.C. Pal and P. Alam, Dispersion of Love waves in prestressed double-layered medium over a gravitating half-space, *Arabian Journal of Geosciences* (Springer), 13(13): 1-10 (2020), DOI: https://doi.org/10.1007/s12517-020-05354-2 (**SCI Expanded**)

Papers in International Conferences/Journals:

1. P.C. Pal, **B. Prasad** and S. Kumar, Reflection and transmission of SH-waves through a self-reinforced elastic layer embedded between two transversely isotropic inhomogeneous elastic half-spaces, *Special Publication of the Geological Society of India* (Geological Society of India), 4: 62-69 (2016), DOI: 10.17491/cgsi/2016/95896

2. **B. Prasad**, P.C. Pal, S. Kundu and N. Prasad, Effect of inhomogeneity due to temperature on the propagation of shear waves in an anisotropic layer, *AIP Conference Proceedings* (AIP), 1860: 020053-1–020053-7 (2017), DOI: 10.1063/1.4990352 (**Scopus**)

3. **B. Prasad**, P.C. Pal and S. Kundu, Love wave propagation in an anisotropic viscoelastic layer over an initially stressed inhomogeneous half-space, *Advances in Structural Vibration*, Lecture Notes in Mechanical Engineering (Springer), 469-479 (2021) DOI: https://doi.org/10.1007/978-981-15-5862-7_38 (**Scopus**)

OTHER PERSONAL DETAILS:

Sex:	Male
Nationality:	Indian
Correspondence/ Permanent address:	Dr. Bishwanath Prasad Upper Bazar, Dharmshala Road, Village + P.O. - Govindpur, District - Dhanbad, State - Jharkhand (India), PIN - 828109 Email: bishwanathprasad92@gmail.com Mob. No.: +91-9279927499
Languages known:	English (SRW), Hindi (SRW), Bengali (S), Bhojpuri (S), Khortha (S) (S=Speak, R= Read, W=Write)

Declaration:

I hereby declare that the above information furnished are true and correct to the best of my knowledge.

Bishwanath Prasad
Date:
Place: Dhanbad, Jharkhand