

Brijendra Paswan



CONTACT INFORMATION

Dr. Brijendra Paswan, *Voice: +91-7992420978, 8877018220*
Assistant Professor, *E-mail: brijendrapaswan@gmail.com*
Department of Mathematics,
Guru Ghasidas Vishwavidyalaya
Bilaspur, Chhattisgarh, India-
495009

RESEARCH INTERESTS

Mathematical Geoscience, Elastodynamics, Seismic Wave Propagation.

SKILLS

MATHEMATICA, MATLAB, C++, LATEX, Microsoft office.

EDUCATION

Indian Institute of Technology (Indian School of Mines) Dhanbad, INDIA

Ph.D., Applied Mathematics, 2017.

- Research Topic: “Some Problems of Seismic Waves in Anisotropic Media”
- Advisor: Dr. Sanjeev A. Sahu

Banaras Hindu University, Varanasi, INDIA

M.Sc., Mathematics, 2012.

- Dissertation Topic: “Modelling the Role of Bacteria on the Depletion of Dissolved Oxygen in Eutrophied Water Bodies”
- Advisor: Prof. Arvind K. Misra

Deen Dayal Upadhyay Gorakhpur University, Gorakhpur, INDIA

B.Sc., Mathematics & Physics, 2010.

Govt. Jubilee Inter College Gorakhpur, INDIA

Intermediate (12th), 2006.

Govt. Jubilee Inter College Gorakhpur, INDIA

High School (10th), 2004.

HONORS AND AWARDS

Basic Scientific Research Fellowship in Science for Meritorious Student for Ph.D Degree at IIT(ISM) Dhanbad Funded by University Grant Commission, New Delhi.

ACADEMIC EXPERIENCE

Guru Ghasidas Vishwavidyalaya (Central University), Bilaspur, Chhattisgarh, INDIA.

- Assistant Professor in the Department of Pure and Applied Mathematics.

24 Feb, 2020 — Till Date.

Guru Ghasidas Vishwavidyalaya (Central University), Bilaspur, Chhattisgarh, INDIA.

- Assistant Professor (Ad-hoc) in the Department of Pure and Applied Mathematics.

9 July, 2018—23 Feb, 2020.

Indian Institute of Technology (Indian School of Mines) Dhanbad, INDIA.

- Taught Applied Mathematics to B.Tech., M.Tech. and M.Sc. students.
- Assisted in computer software lab to teach the programming languages C, C++, FORTRAN 77 and DBMS.

March, 2013 - August 2017.

PUBLICATIONS

SCI & Scopus Journal

1. Sanjeev A. Sahu, Soniya Chaudhary, **Brijendra Paswan.**, *Scattering phenomenon of qP wave at the interface of FGPM and piezoelectric medium*, *Waves in Random and Complex Media*, 29(3),435-455 (2018) **Impact Factor-3.330.**
2. **Brijendra Paswan**, Sanjeev A. Sahu, Pradeep K. Saroj., *Dynamic response of heterogeneity and reinforcement on the propagation of torsional surface waves*, *Technische Mechanik*, 37(1),69-81(2017).
3. Soniya Chaudhary, Sanjeev A. Sahu, **Brijendra Paswan.**, *Transference of SH waves through Irregular Interface between Corrugated Piezoelectric Layer and Pre-Stressed Viscoelastic Substrate*, *Mechanics of advanced materials and structures*, 26(2),156-169,(2017) **Impact Factor-3.517**
4. **Brijendra Paswan**, Sanjeev A. Sahu, Amares Chattopadhyay., *Reflection and transmission of plane wave through fluid layer of finite width sandwiched between two monoclinic elastic half-spaces*. *Acta Mechanica.*, 227(12),3687-3701,(2016), **Impact Factor-2.102.**
5. Sanjeev A. Sahu, **Brijendra Paswan**, Amares Chattopadhyay., *Reflection and transmission of plane waves through isotropic medium sandwiched between two highly anisotropic half-space.*, *Waves in Random and Complex Media.*, 26(1),42-67 (2015) **Impact Factor-3.330.**
6. Sanjeev A. Sahu, Pradeep K. Saroj, **Brijendra Paswan.**, *Shear waves in a heterogeneous fiber-reinforced layer over a half-space under gravity*. *International journal of Geomechanics.*,15(2),pp-04014048(2014) **Impact Factor-2.780.**

CONFERENCE PRESENTATIONS

1. "Reflection and transmission of plane wave at the interface of monoclinic elastic half-space and fluid medium" presented in the 6th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics-Indian Institute of Technology Roorkee, Greater Noida Extension Center, India during August 3-6, 2016.
2. "On velocity profile of surface wave in anisotropic heterogeneous layer" presented in the International Conference on Current Trend in PDEs: Theory and Computation- South Asian University, New Delhi, India during December 28-30, 2015.
3. "Scattering phenomenon of waves in a composite structure" presented in the 7th National Conference on Wave Mechanics and Vibrations- IIT (ISM), Dhanbad, India during December 21-23, 2015.
4. "Reflection and transmission phenomenon through isotropic layer" presented in the 12th International Conference on Vibration Problems - Indian Institute of Technology, Guwahati, India during December 14-17, 2015.
5. Participated in 80th annual conference of Indian Mathematical Society held at IIT(ISM), Dhanbad on December 27-30, 2014.
6. Participated in Science Academy's Lecture Workshop on "Concept of Fluid Dynamics and its Applications" during October 08-10, 2014.

MEMBERSHIP

1. Life member of Indian Mathematical Society, Pune, Maharashtra, India.
2. Member of Society of Industrial and Applied Mathematics, Philadelphia, Pennsylvania, United States.

REVIEWER
[SELECTED
JOURNALS]

- Waves in random and complex media.
- Acta Mechanica.
- Journal of Solid Mechanics.
- International Journal of Geomechanics.
- Mechanics of Advanced Material and Structures