



**BINOD BIHARI MAHTO KOYALANCHAL UNIVERSITY,
DHANBAD, JHARKHAND – 828130.**

FACULTY PROFILE

Department: **Mathematics**

Faculty: **Science**



ABOUT THE FACULTY

1. Name: **DR. SHIV PRASAD**
2. Designation: **Asstt. Professor (Mathematics)**
3. Officiating Post:
 - **Head of the Department (I/C),
University Department of Computer Science,
BBMK University, Dhanbad.
(From: 17.10.2022 till date)**
 - **Finance Officer (I/C),
BBMK University, Dhanbad.
(From: 24.11.2023 till date)**
4. Address for correspondence: **Department of Mathematics,
BBMK University, Dhanbad.
Telephone: +91 9334048669
Email: shpd1512@gmail.com
shiv.prasad@bbmku.ac.in**
5. Teaching experience: P. G.: **06 years** U. G.: **21 years**
College/ University: **BSK College, Maithon & KB College, Bermo (Bokaro) /
University Department, BBMK University, Dhanbad.**
6. Academic record:

Degree	Div. / Class	Subject(s)	Year of Passing	% of marks	College / University
Graduate	1 st Class	Mathematics (Hons.)	1985	66.3 %	Magadh Univ. Bodh Gaya.
Post-graduate	1 st Class	Mathematics	1988	75.1 %	Magadh Univ. Bodh Gaya.
MPhil/MTech		Applied Mathematics	2000		ISM, Dhanbad.
Ph.D.		Applied Mathematics	2003		ISM, Dhanbad.

7. Title of the Ph.D. Thesis: **Generation and Propagation of Elastic Waves in Layered Media.**
8. Specialization at the Master's level: **Topology and Functional Analysis.**
9. Specialization at the Doctorate level: **Solid Mechanics.**
10. Research experience: **27 years,**
Place of work: **ISM, Dhanbad/ BBMK University Dhanbad.**
11. Number of Ph.D. Students already received degrees under supervision: **01 (One)**
Number of Ph.D. students currently enrolled under supervision: **03 (Two)**
12. Certification(s):
- (a) *Certificate of Appreciation* presented for acting as the College Co-ordinator, RUSA & NAAC, K. B. College, Bermo (Bokaro) on 2nd December 2017.
 - (b) *Certificate of Appreciation* presented for designing the BBMK University, Dhanbad logo on 22nd July 2021.
13. Research Profile(s): SCOPUS Id: [58856850300](https://orcid.org/58856850300)
ORCID: [0000-0002-4022-1022](https://orcid.org/0000-0002-4022-1022)

Publication(s):

1. Ranking Fuzzy Numbers with Unified Integral Value and Comparative Reviews. *Journal of Scientific Research*, 14(1), 131–151. <https://doi.org/10.3329/jsr.v14i1.53735>
2. Ranking Fuzzy Numbers based on Angles of the Reference Functions and its Applications to Multi-criteria Decision-making Problems. *Bull. Cal. Math. Soc.*, 114, (4) 489–508
3. Ranking Fuzzy Numbers with Mean Value of Points and Comparative Reviews. *Journal of Scientific Research*, 14(3), 755–771. <https://doi.org/10.3329/jsr.v14i3.58133>
4. Ordering Fuzzy Numbers with Weighted Mean Values and Their Application to Multi-Criteria Decision-Making Problem. *Journal of Scientific Research*, 15(2), 313–333. <https://doi.org/10.3329/jsr.v15i2.61319>
5. A unified distance approach for ranking fuzzy numbers and its comparative reviews. *Journal of the Indonesian Mathematical Society*, 347–371. <https://doi.org/10.22342/jims.29.3.1337.347-371>
6. A New Approach of Centroid based Ranking Fuzzy Numbers and its Comparative Reviews. *Communications in Mathematics and Applications*, 14(5), 1551–1563. <https://doi.org/10.26713/cma.v14i5.2286>
7. Solving Fully Fuzzy Linear Programming Problems with Modified Triangular Fuzzy Numbers based on a Ranking Function. *Bull. Cal.Math. Soc.*, 115 (6) 757-780.
8. Fuzzy Game with Qualitative Payoffs in Linguistic Terms. *Journal of Scientific Research*, 17(3), 767-775. <https://dx.doi.org/10.3329/jsr.v17i3.78746>
9. SOLVING FUZZY SEQUENCING PROBLEMS BASED ON THE GEOMETRIC MEAN OF THE HORIZONTAL POINTS ON THE REFERENCE FUNCTIONS. *ICTACT JOURNAL ON SOFT COMPUTING*, JULY 2026, VOLUME: 17, ISSUE: 02, ISSN: 2229-6956 (ONLINE), DOI: 10.21917/ijsc.2026.0585
10. A Pentagonal Fuzzy Ranking Approach Using Nagel Point for Uncertain Scheduling Problems. *Transactions on Fuzzy Sets and Systems (TFSS)*, Online ISSN: 2821-0131, Vol.6, No.1, (2027), 208-222, DOI: <https://doi.org/10.71602/tfss.2027.1216738>

11. The propagation of plane shear waves in a layered medium including a fluid-saturated porous stratum. *Advances in Mathematical Statistical and Computational Methods in Science and Technology*. Vol.1(1) 51-60. ISBN - 81-7556-598-5
12. On the displacement produced in an inhomogeneous anisotropic elastic half-space by an impulsive torsional load. *Advances in Mathematical Statistical and Computational Methods in Science and Technology*. Vol.1 55-60. Pragati Prakashan

Book Chapter(s):

1. Ordering Fuzzy Numbers based on Angles of the Membership Functions and Comparative Reviews- A Mathematical Approach. *Holistic Research Perspectives*, Vol.2, 10-24

Conferences (Participation & Paper Presentation):

1. International e-Conference on Number Theory and Differential Equations (ICND), (2021), Department of Mathematics, School of Physical Sciences, Central University of Karnataka. India. “*Ranking Trapezoidal Fuzzy Numbers based on the Angles of the Reference Functions*”
2. International Conference on Contemporary Researchers in Engineering, Science, Management & Arts (ICRESMA), (2022), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu, India. “*Ranking fuzzy numbers based on Angles of Reference Functions- A Mathematical Approach*”
3. International Conference on Research Innovations & Challenges (ICRIC), (2023), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu, India. “*Solving Fully Fuzzy Linear Programming Problems based on a Ranking Function*”.
4. International Conference on Research Innovations & Challenges (ICRIC), (2023), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu, India. “*Ordering Fuzzy Numbers using Radius of Gyration of Fuzziness Regions*”.
5. International Conference on Research Innovations & Challenges (ICRIC), (2025), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu, India. “*Signed-Distance Approach for Ranking Pentagonal Fuzzy Numbers*”.
6. **Certificate of Merit:** International Conference on Research Innovations & Challenges (ICRIC), (2025), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu, India. “*Signed-Distance Approach for Ranking Pentagonal Fuzzy Numbers*”.

DECLARATION

I hereby declare that the particulars furnished by me are correct. I promise to abide by the rules and regulations of the University. I authorize the University to verify the information provided and use it for official purposes.

Date:**28.11.2024**.....

Place:**Dhanbad**.....

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Signature