RESUME

Dr. Dilchand Mahto

(M. Sc.- Ph.D., GATE and NET-JRF) Assistant Professor Department of Mathematics, Central University of Jharkhand, Cheri-Manatu, Kanke, Ranchi- 835222, Jharkhand, India. E-mail- dilchandiitk@gmail.com Mobile - +91 8789567453



Personal Information:

Brief Profile	Dr. Dilchand Mahto is an academician in the field of Mathematics. His area of research are Algebra, Number Theory and Representation Theory that have beautiful application in Operation Research, Computer Science, Data Science and Quantum Mechanics. He has seven years research and more than two years teaching experience. Dilchand received his primary education from local schools which are situated at Petarwar, a block of Bokaro district in Jharkhand State, India. Later he went to Ranchi and obtained his bachelor's degree in Mathematics from Ranchi University Ranchi, India in 2011. There after he qualified JAM and did his master's degree with specialization in Mathematics from Prestigious institute of India namely Indian Institute of Technology, Kanpur in the year 2015. Also, He has qualified GATE-2016 (AIR-132) and awarded NET-JRF in June 2016. From August 2017 to April 2023, he was a Research Scholar in the Department of Mathematics, Central University of Jharkhand, Ranchi, India. Currently he is serving as an Assistant Professor in the Department of Mathematics at Central University of Jharkhand, Ranchi.
Google Scholar Link	Click here
Scopus Id	<u>57219498396</u>
ORCID Id	0000-0001-7705-6895

Educational Qualifications:

- Ph. D. in Mathematics from Central University of Jharkhand, Ranchi, India in the year 2023. Title of the thesis: Space of Invariant bilinear forms under representation of a finite Group Thesis Supervisors: Dr. Jitendra Kumar and Prof. Jagmohan Tanti
- M. Sc. in Mathematics from IIT Kanpur, Uttar Pradesh, India in the year 2015 with 64.00 % marks (1st division).
- B. Sc. in Mathematics from Ranchi University, Ranchi, Jharkhand, India in the year 2011 with 73.00 % marks (1st division).

Courses Taught:

- M. Sc.: Optimization Techniques, Complex Analysis, Topology, Calculus of Variation, Measure Theory and Probability and Mathematical Analysis.
- M. Tech.: Mathematical Foundation of Computer Science.
- **B. Tech**.: Mathematics III.
- **BA/B.Sc.**: Optimization Techniques-I, Differential Equation, Calculus and Quantitative Aptitude and Logical Thinking.

Professional Experience:

• Assistant Professor in Department of Mathematics at Central University of Jharkhand, Ranchi, Jharkhand (February 10, 2023 to till date).

Research Interest:

- Representation Theory
- Algebra
- Number theory

Articles Published:

1.	Dilchand Mahto and Jagmohan Tanti: Invariant bilinear forms under the operator group of
	order p3 with odd prime p, Proyecciones Journal of Mathematics, Vol 42, Issue 6, 1391-1415, 2023
2.	Dilchand Mahto and Jagmohan Tanti: The faithful representations of rigid motions of a regular
	polygon, The Mathematics Student, Vol 91, Issue 3-4, 127-134, 2022.
3.	Dilchand Mahto and Jagmohan Tanti: Space of invariant bilinear forms under a representation
	of SL2(3), South East Asian Journal of Mathematics and Mathematical Sciences, Vol17, Issue
	3, 29-44, 2021.

4.	Dilchand Mahto and Jagmohan Tanti: Space of invariant bilinear forms under representation of
	a group of order 8, Jnanabha, Vol 51, Issue 2, 152-160, 2021
5.	Dilchand Mahto and Jagmohan Tanti: Invariant bilinear forms under the rigid motions of a
	regular polygon (Communicated).
6.	Dilchand Mahto: Sum of a finite sequence of product of two cosine functions (Communicated).

Seminar/ Workshop/ Conference Particiption:

- Paper Presented in International Conference on Advanced Mathematical Analysis and its Application (ICAMAA-2020) at Berhampur University, Odisha (India).
- Paper Presented in International Conference on Advances Mathematics and Computing (ICAMC-2020) at VSSUT, Odisha (India).
- Paper Presented in International Conference on "Emerging trends in Pure and Applied Mathematics" (ICETPAM-2022) at Tezpur University, Assam (India).
- Participated AICTE Training and Learning (ATAL) Academy FDP on "Cyber Security" Sept 16-20, 2019 at Central University of Jharkhand, Ranchi (India).
- Participated AICTE Training and Learning (ATAL) Academy FDP on **"Robotics"** Dec. 16-20, 2019 at Central University of Jharkhand, Ranchi (India).
- Participated one day workshop on Referencing Tools, Nov 2017 at Central University of Jharkhand, Ranchi (India).

Award and Recognition:

- Qualified NET-JRF in 2016, Organized by Joint CSIR-UGC.
- Qualified GATE in 2016, Organized by IISc Bengaluru.
- Qualified JAM in 2012, Organized by IIT Bombay.

Skills:

- MS Office
- MATLAB
- LATEX
- MATHEMATICA

Place: Central University of Jharkhand

Dilchand Mahto