

RESUME

Dr. B. B. CHATURVEDI
M.Sc., NET(JRF), Ph. D.

Assistant Professor (Level-12)
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CAREER PROFILE

- Ph. D., University of Allahabad, Allahabad (U.P.), India.
- Title of the Thesis: Some Problems on complex Manifolds
- Passed Junior Research Fellowship (JRF) and eligibility for Lecturer – National Eligibility Test (NET) June, 2003.
- M. Sc., Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur(U.P.), India
- B. Sc., Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur(U.P.), India

RESEARCH EXPERIENCE

- Fourteen years (14years)

RESEARCH GUIDANCE

- (04 Students) Two students have completed and other two are working

RESEARCH AREAS

- Manifolds and Cosmology

BOOK PUBLISHED

- **BRAJ BHUSHAN CHATURVEDI: SEMI-SYMMETRIC CONNECTIONS ON COMPLEX MANIFOLD, LAMBERT ACADEMIC PUBLISHING HOUSE, GERMANY.**

RESEARCH PAPER PUBLISHED (55)

1. **B. B. Chaturvedi**, Prabhawati Bhagat, Mohammad Nazrul Islam Khan, Tazeen Rana, Ratnesh Kumar Mishra: Proposed Theorems on a Lorentzian Kaehler Space-time Manifold Admitting Bochner Curvature Tensor, Results in Nonlinear Analysis(RNA), 6(4) 2023, 140-148

2. **B. B. Chaturvedi**, Prabhawati Bhagat and Mohammad Nazrul Islam Khan: Novel theorems for a Bochner flat Lorentzian Kaehler space-time manifold with η -Ricci-Yamabe solitons, *Chaos, Solitons & Fractals*: X, 11 (2023), ISSN: 2590-0544, <https://doi.org/10.1016/j.csf.2023.100097>. (**INDEXED IN SCOPUS, ESCI**)
3. **B. B. Chaturvedi** and Kunj Bihari Kaushik: On Ricci pseudo-symmetric super quasi-Einstein nearly Kaehler manifold, *PALESTINE JOURNAL OF MATHEMATICS* 12(1)(2023), 892-899 ISSN: 2219-5688. (**INDEXED IN SCOPUS**)
4. B. K. Gupta and **B. B. Chaturvedi**: ON RICCI SEMI-SYMMETRIC SUPER QUASI-EINSTEIN HERMITIAN MANIFOLD, *Facta Universitatis' Series Mathematics and Informatics* 38(4) 2023, 793-803. ISSN: 0352-9665 doi.org/10.22190/FUMI230611051C.
5. B. K. Gupta and **B. B. Chaturvedi**: On Mixed Generalised Quasi-Einstein Hermitian manifolds, *Bull. Call. Math. Soc.*, 115(4) 2023, 495-508. (**UGC LISTED**)
6. **B. B. Chaturvedi** and Kunj Bihari Kaushik: Study of a Projective Ricci Semi-symmetric Nearly Kaehler Manifold, *Asian Journal of Mathematics and Computer Research*, 30(3) (2023), 19-29. ISSN: 2456-477X.
7. B. K. Gupta and **B. B. Chaturvedi**: On a slant submanifold of a Kaehler-Norden manifold, *Journal of Tensor Society of India*, 16(2022), 71-80. ISSN: 0974-5428.
8. B. K. Gupta and **B. B. Chaturvedi**: E-BOCHNER CURVATURE TENSOR ON ALMOST $C(\lambda)$ MANIFOLDS, *Facta Universitatis' Series Mathematics and Informatics* 37(4) 2022, 739-750. ISSN: 0352-9665.
9. Kunj Bihari Kaushik, **B. B. Chaturvedi**, Prabhawati Bhagat, J P Jaiswal and M. K. Gupta: Nearly Kaehler manifold satisfying certain curvature conditions, *Chhattisgarh Journal of Science and Technology*, 19(1) 2022, 46-51.
10. **B. B. Chaturvedi** and Kunj Bihari Kaushik: On Ricci Semi-Symmetric Mixed Super Quasi-Einstein Nearly Kaehler Manifold, *J. Internat. Acad. Phy. Sci.*, 26(1) (2022), 17-27.
11. B. K. Gupta, **B. B. Chaturvedi**, Prabhawati Bhagat, M. K. Gupta and J. P. Jaiswal: On Bochner Ricci pseudo-symmetric mixed super quasi-Einstein Hermitian manifolds, *Chhattisgarh Journal of Science and Technology*, 19(2) 2022, 36-42.
12. Nishant Kumar, J. P. Jaiswal, **B. B. Chaturvedi** and M. K. Gupta: Construction of Bi-Accelerator Two-Step Iterative Scheme with Memory for Solving Nonlinear Equations, *Chhattisgarh Journal of Science and Technology*, 19(2) 2022, 51-57.
13. M K Gupta, Suman Sharma, **B B Chaturvedi** and J P Jaiswal: On Subspaces Of A Finsler Space With H-Randers Exponential Change, *Chhattisgarh Journal of Science and Technology*, 19(3) 2022, 101-104.

14. **B. B. Chaturvedi** and B. K. Gupta: On Ricci Pseudo-Symmetric Mixed Generalised Quasi-Einstein Hermitian Manifolds, Proceedings of the National Academy of Sciences, India Sect A , 91(1) 2021 ISSN: 0369-8203, <https://doi.org/10.1007/s40010-020-00728-3>. **(INDEXED IN SCOPUS, SCI, Impact factor = 1.291)**.
15. **B. B. Chaturvedi** and Kunj Bihari Kaushik: On Ricci semi-symmetric mixed quasi-Einstein nearly Kaehler manifolds, Chhattisgarh Journal of Science and Technology, 18(3) 2021, 61-64.
16. **B. B. Chaturvedi**, Kunj Bihari Kaushik and M. K. Gupta: Solitons on pseudo quasi-Einstein Nearly Kaehler manifold, Chhattisgarh Journal of Science and Technology, 18(4) 2021, 100-104.
17. **B. B. Chaturvedi** and Pankaj Pandey: A Note on Semi-Symmetric Metric Connection in Riemannian manifold, *Thai Journal of Mathematics*, 19(4) 2021, 1199-1207(Scopus), ESCI. **(INDEXED IN (SCOPUS, ESCI)**
18. **B. B. Chaturvedi** and B. K. Gupta: ON AN ANTI-KAEHLER CODAZZI MANIFOLD, PALESTINE JOURNAL OF MATHEMATICS 9(2), (2020) 874-879. ISSN: 2219-5688. **(INDEXED IN SCOPUS)**
19. **B. B. Chaturvedi** and B. K. Gupta: ON RICCI PSEUDO-SYMMETRIC SUPER QUASI-EINSTEIN HERMITIAN MANIFOLDS, Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics **69**(2020) 172-182, ISSN NO-**1303-5991**, **(UGC CARE LIST-B)**
20. **B. B. Chaturvedi** and B. K. Gupta: On Bochner curvature tensor on Kaehler-Norden manifolds, South East Asian Journal of Mathematics and Mathematical Sciences, 16(3), 2020, 339-346 ISSN: 0972-7752. **(UGC Care list-II)**.
21. Pankaj Pandey, **B. B. Chaturvedi** and Mona Jasrotia: Some Results on Ricci Yamabe Soliton equipped with f -Kenmotsu Manifold, Chhattisgarh Journal of Science and Technology, 17(4) 2020, 33-36.
22. **B. B. Chaturvedi** and B. K. Gupta: Quasi-conformal Curvature Tensor of Generalized Sasakian-Space-Forms, Facta Universitatis' Series Mathematics and Informatics 35(1) 2020, 89-99. ISSN: 0352-9665.
23. **B. B. Chaturvedi** and B. K. Gupta: ON BOCHNER RICCI PSEUDO-SYMMETRIC HERMITIAN MANIFOLDS, Southeast Asian Bulletin of Mathematics (2020) 44: 479-490. ISSN: 0129-2021 **(UGC CARE LIST-B)**
24. **B. B. Chaturvedi** and Pankaj Pandey: Study of Hypersurface of semi-almost Hermitian manifold equipped with quarter-symmetric non-metric connection, Journal of Physics, 1531 (2020) doi:10.1088/1742-6596/1531/1/012051**(INDEXED IN SCOPUS)**

25. **B. B. Chaturvedi** and Pankaj Pandey: On a Lorentzian complex space form, National Academy of Science Letters, 43 (4) (2020), 351-353. (**INDEXED IN SCOPUS, SCI, Impact factor =1.33**)
26. **B. B. Chaturvedi** and B. K. Gupta: C-BOCHNER CURVATURE TENSOR ON ALMOST $C(\Lambda)$ MANIFOLDS, PALESTINE JOURNAL OF MATHEMATICS, Vol. 8(2) (2019) 258–265. ISSN: 2219-5688. (**INDEXED IN SCOPUS**)
27. **B. B. Chaturvedi** and B. K. Gupta: ON BOCHNER RICCI SEMI-SYMMETRIC HERMITIAN MANIFOLD, ACTA MATH. UNIV. COMENIANAE VOL. LXXXVII, 1 (2018), 25-34 ISSN: 0862-9544. (**INDEXED IN SCOPUS**)
28. B. K. Gupta, **B. B. Chaturvedi** and M. A. Lone: ON RICCI SEMI-SYMMETRIC MIXED SUPER QUASI-EINSTEIN HERMITIAN MANIFOLD, DIFFERENTIAL GEOMETRY- DYNAMICAL SYSTEMS, VOL. 20 (2018), 72-82. ISSN: **1454-511X (UGC CARE LIST-D)**
29. B. K. Gupta and **B. B. Chaturvedi**: A NEW TYPE OF GENERALIZED QUASI-EINSTEIN MANIFOLD, NEW TRENDS IN MATHEMATICAL SCIENCES NEW TRENDS IN MATHEMATICAL SCIENCES, 6 (2), (2018), 159-165 ISSN:2147-5520
30. **B. B. Chaturvedi** and Pankaj Pandey: On a Kaehler manifold equipped with lift of quarter symmetric non-metric connection, *Facta Universitatis (NIS)*, Series: Mathematics and Informatics, 33(4) 2018, 539-546.
31. **B. B. Chaturvedi** and Pankaj Pandey: Existence of Generalized Mixed Super Quasi-constant Curvature, *Differential Geometry-Dynamical System*, 20 (2018), 15-25. (**UGC CARE LIST-D**)
32. **B. B. Chaturvedi** and B. K. Gupta: SIX-DIMENSIONAL BULK VISCOUS FLUID COSMOLOGICAL MODEL IN $F(R, T)$ GRAVITY THEORY, BULG. J. PHYS. 44 (3) (2017) 288–298 ISSN: 1310-0157. (**UGC CARE LIST-D**).
33. **B. B. Chaturvedi** and B. K. Gupta: ON A HYPERBOLIC KAEHLERIAN SPACE, ACTA MATHEMATICA ACADEMIAE PAEDAGOGICAE NYÍREGYHÁZIENSIS 33 (2017), 207-213 ISSN: 1786-0091 (**INDEXED IN SCOPUS**)
34. **B. B. Chaturvedi** and Pankaj Pandey: On a mixed super quasi-Einstein manifold, *Asian Journal of Mathematics and Computer Research*, 18(2) (2017), 76-80.
35. **B. B. Chaturvedi** and Pankaj Pandey: Weak Symmetric Manifolds Equipped with Semi-Symmetric Metric Connection, *Palestine Journal of Mathematics*, 6(2) (2017), 507-514. (**INDEXED IN SCOPUS**)
36. **B. B. Chaturvedi** and Pankaj Pandey: Study of Kaehler Manifolds Endowed with Lift of Symmetric Non-Metric Connection, *Acta Mathematica Academie Paedagogiace Nyiregyhaziensis*, 33, 2017, 61-66. (**INDEXED IN SCOPUS**)

37. **B. B. Chaturvedi** and B. K. Gupta: STUDY OF A SEMI-SYMMETRIC SPACE WITH A NON-RECURRENT TORSION TENSOR, *J. INTERNAT ACAD. PHY. SCI.* 20(3)(2016), 155-163 ISSN:0974-9373.
38. B. B. Chaturvedi and B. K. Gupta: STUDY OF TIME DEPENDENT COSMOLOGICAL TERM Λ IN A SIX DIMENSIONAL COSMOLOGICAL MODEL, *GEN. MATH. NOTES*, 37(1), (2016), 32-41. ISSN: 2219-7184
39. **B. B. Chaturvedi** and B. K. Gupta: SOME INVESTIGATION ON COSMOLOGICAL MODEL *BALKAN JOURNAL OF APPLIED SCIENCES*, 18(1), (2016), 18-29 ISSN:1454-5101(**INDEXED IN SCOPUS**)
40. **B. B. Chaturvedi** and Pankaj Pandey: Conformal Transformation in an Almost Hermitian Manifold, *Novi Sad Journal of Mathematics*, 46(1) (2016), 217-226. (**INDEXED IN SCOPUS**)
41. **B. B. Chaturvedi** and B. K. Gupta: STUDY OF A HYPERBOLIC KAEHLERIAN MANIFOLDS EQUIPPED WITH A QUARTER- SYMMETRIC METRIC CONNECTION, *FACTA UNIVERSITATIS (NIS)*, SER.MATH. INFORM. 30, (1), 2015, 115-127 ISSN: 0352-9665.
42. **B. B. Chaturvedi** and Pankaj Pandey: Study of a New Type of Metric Connection in an Almost Hermitian Manifold, *Facta Universitatis (NIS)*, Series: Mathematics and Informatics, 30(2) (2015), 217-224.
43. **B. B. Chaturvedi** and Pankaj Pandey: Study on Special type of a Weakly Symmetric Kaehler manifold, *Differential Geometry-Dynamical System*, 17 (2015), 32-37. (**UGC CARE LIST-D**)
44. **B. B. Chaturvedi** and Pankaj Pandey: Some Examples on Weak Symmetries, *General Mathematics Notes*, 29(1) (2015), 61-66.
45. **B. B. Chaturvedi** and Pankaj Pandey: On the Flatness of Weak Symmetric Manifolds, *Journal of International Academy of Physical Sciences*, 18(4) (2014), 79-84.
46. **B. B. Chaturvedi** and B. K. Gupta, STUDY OF CONHARMONIC RECURRENT SYMMETRIC KAEHLER MANIFOLD WITH SEMI-SYMMETRIC METRIC CONNECTION, *J. INTERNAT ACAD. PHY. SCI.* 18 (1) (2014), 11-18. ISSN:0974-9373
47. **B. B. Chaturvedi** and B. K. Gupta: STUDY ON SEMI-SYMMETRIC METRIC SPACES, *NOVI SAD J.MATH.* 44 (2), (2014), 183-194 ISSN:1450-5444 (**INDEXED IN SCOPUS**)
48. **B. B. Chaturvedi** and P. N. Pandey: Kaehler manifold with a special type of semi-symmetric non-metric connection, *Global Journal of Mathematical Sciences* 7 (1) (2015), 17-24 .

49. **B. B. Chaturvedi** and P. N. Pandey: Some results in a Kähler manifold equipped with a semi-symmetric non-metric connection, Jour. Pure Math.29 &30 (2013), 14-20.
50. **B. B. Chaturvedi** and P. N. Pandey: Riemannian manifold with a special type of semi-symmetric non-metric connection, J. Internat. Acad. Phy. Sci.,13-3 (2009), 253-259.
51. **B. B. Chaturvedi** and P. N. Pandey: Semi-symmetric non-metric connections on a Kähler manifold, Differential Geometry - Dynamical Systems, 10 (2008), 86-90.
52. P. N. Pandey and **B. B. Chaturvedi**: Semi-symmetric metric connection on a 4-dimensional almost Hermitian manifold of pointwise constant anti-holomorphic sectional curvature, Bull. Coll. Math. Soc., 100-4(2008), 401-410. (**INDEXED IN SCOPUS**)
53. P. N. Pandey and **B. B. Chaturvedi** :Recurrences with respect to a semi-symmetric metric connection on an almost Hermite manifold, Proceedings of the National Academy of Sciences, India Sect. A, 78 (2008), 137-143. (**INDEXED IN SCOPUS, SCI, Impact factor =1.291**)
54. P. N. Pandey and **B. B. Chaturvedi**: Semi-symmetric metric Connection on a Kähler manifold, Bull. All. Math. Soc., 22(2007), 51-57.
55. P. N. Pandey and **B. B. Chaturvedi** Almost Hermitian manifold with semi-symmetric recurrent connection, J. Internat. Acad. Phy. Sci., 10 (2006), 69-74.

CONFERENCES: INVITED TALK/PRESENTED PAPER

1. National Seminar on Contribution of Ancient Indian Mathematicians & its uses in present Age on 22-23 January at Dongargaon, Chhattisgarh.
2. 18th International conference of the International Academy of Physical Sciences (CONIAPS-XVIII) during Dec. 22-24, 2015 at Allahabad.
3. 18th International conference of the International Academy of Physical Sciences (CONIAPS-XVIII) during Dec. 22-24, 2015 at Allahabad.
4. National Seminar on Value and importance on Mathematical Physics on 5th Dec. 2015 at Rajim, Chhattisgarh.
5. 17th International conference of the International Academy of Physical Sciences (CONIAPS-XVII) during Jan. 16-18, 2015 at Jaipur.
6. 3rd International Conference on Recent trends in Science and Technology (IC-RTST-2015) Feb. 27-28, 2015 at Sagar.
7. International conference on Algebra, Geometry, Analysis and their Applications (ACAGAA-2014) November 27-29, 2014 at JAMIA, New Delhi.

8. National Conferences on Engineering a Science (AMES-2014), November 29-30, 2014 at MNNIT, Allahabad.
9. National conference on Differential Geometry and its Applications (DGACON2014), Dec. 27-28, 2014 at University of Allahabad, Allahabad.
10. 11th conference of the International Academy of Physical Sciences (CONIAPS-XI) during February 20-22, 2010 at Allahabad.
11. 96th Indian Science Congress during January 3-7, 2009 at Shillong.
12. National Symposium on Modern Trends in Differential Geometry and Mathematical Modelling in Bio-Sciences during December 24-25, 2008 at Lucknow.
13. 95th Indian Science Congress during January 3-7, 2008 at Vishakhapatnam.
14. 10th conference of the International Academy of Physical Sciences (CONIAPS-X) during January 12-15, 2008 at Bilaspur.
15. International conference on Emerging Challenges in Science & Technology, during November 13-14, 2008 at Allahabad.
16. 78th Annual session of National Academy of Sciences, India during November 21-23, 2008 at Chandigarh.
17. 9th conference of the International Academy of Physical Sciences (CONIAPS-IX) during February 2-5, 2007 at Agra.
18. 8th conference of the International Academy of Physical Sciences (CONIAPS-VIII) during December 29-31, 2005 at Meerut.
19. 7th conference of the International Academy of Physical Sciences (CONIAPS-VII) during December 21-23, 2004 at Allahabad.

RESEARCH PROJECT

- UGC Start up grant (six lacks)

MEMBERSHIP

- Life Member of Indian Science Congress.
- Life Member of International Academy of Physical Sciences.

ACADEMIC/ ADMINISTRATIVE RESPONSIBILITIES

- Hostel warden of Dr. B R Ambedkar Hostel, GGV, Bilaspur
- Member of Departmental research committee 2022
- Working as School coordinator in NAAC preparation committee
- Working as member of a committee of Incubation Center
- Working as a member Proctorial board from 2020

- Worked as a election officer in Student Council Elections in GGV
- Worked as School Cultural Coordinator session 2013-14
- Worked as a election officer in Student Council Elections in GGV session 2013-14
- Worked as School Cultural Coordinator session 2014-15
- Worked as a election officer in Student Council Elections in GGV session 2014-15
- Worked as a election officer in Student Council Elections in GGV session 2015-6
- Worked as School Cultural Coordinator session 2015-16
- Worked as member of CBCS implemented committee session 2015-16
- Member of Departmental Purchase Committee session 2012-13
- Member of Departmental Research Committee session 2013-16
- Member of Departmental Admission Committee session 2012-13
- Member of Departmental Admission Committee session 2013-14
- Member of Departmental Admission Committee session 2014-15
- Worked as Assistant centre superintendent for the conduction of Exam session 2015-16
- Member of BoS session 2015-18
- Member of Ordinance preparation Committee session 2016-17