



Guru Ghasidas Vishwavidyalaya

(A Central University)

Centre/School: Mathematical & Computational Science

Department: Mathematics

Phone+91-8819923774, 7999791828

Email: drakthakurmath@gmail.com

Name: **Dr. A. K. Thakur**

Designation: Professor

Qualification: M.Sc., Ph.D.

Area of Interest/Specialization: Integral Transforms, Integral Equations and Fractional Calculus

Experience: 15+ Years

❖ **Research Supervision**

M. Phil: Awarded (19)

Ph .D: Awarded (04) & Submitted (03)

❖ **Patent**

1. Method for Water pollutant concentration estimation in water reservoir using Laplace Transform, Australian Govt., Patent Number:2020102450.,2020
2. Green Building Environment Management module for real time Air quality monitoring, Australian Govt., Patent Number:2020102451., 2020
3. Effect of B-site disorder on the ferroelectric properties of BZT ceramics ,Indian ,Govt., Patent Number:202221022529,2022

❖ **Books Publication**

1. A. K .Thakur,“Fundamental concepts of Partial Differential Calculas” LAP Lambert Academic Publishing Germany (ISBN :978-3-659-17751-4)
2. A. K .Thakur,“Applied Engineering Mathematics-I” Sahani Pub. ,Delhi , (ISBN:978-81-7564-558-5)
3. A. K .Thakur ,“Fundamental Concept of Algebra for JEE –Mains +Advanced”, Evincepub Publishing, Mumbai,(ISBN:978-93-5673-526-2)

❖ **Editor /Associate Editor/Editorial Advisory Board Member**

1. International Conference on Mathematical Techniques in Application of Sci. and Tech.(ISBN:978-93-5673-251-3)
2. Bharat Journal of Science Technology and Humanities
3. International Journal of Research in Mathematics & Computation (IJRMC) , Malaysia
4. Journal of computer and Mathematical sciences
5. IAENG international Association of engineers
6. Applied Science Periodical

❖ Invited Talk

1. New Characterization theorem of Stieltjes transforms for Distribution, 68th Annual Conference of Bharat Ganit Parisad ,Conference on Analysis and Applications-An International Meet(CAAIM-21) ,Jointly organized by Faculty of Mathematical and Statistical Sciences ,Shri Ramswaroop Memorial University, Barabanki (U.P.), Nov. 17-18,2021,India
2. Application and utilization of integral transform, National Conference on Advance approaches in pure and applied Mathematics(NCAAPAM,2022-23), Organized by Faculty of Technology & Department of Mathematics, Kalinga University ,Naya Raipur(C.G) ,Sponsored by AICTE, Dated 02/09/2022 , India.

❖ Publications: More than 60 papers in reputed International/ National Journals

Latest 15 papers published in National / Inter National journals:

1. **A.K.Thakur**,Kamalmani Baral,G. K. Singh and S.K.Sahu, Estimation of Error of Approximation in Lip (α,r) , $(r \geq 1)$ Class by almost Riesz Transform, Aegaeum Journal, 0776-3808, Vol. 8, Issue 11, 255-263,2020.
2. **A.K.Thakur**,Gopi Sao and Hetram Suryavanshi,Generalized Properties of Mellin Weierstrass Transforms A Journal of Composition Theory ,0731-6755,Vol. XIII(IX),98-107,2020.
3. G.K.Singh and **A.K.Thakur**, Matrix Summability of the conjugate series of derived fourier series, Ganita, Vol.70(2), 293-301,2020.
4. **A.K.Thakur**,G.K.Singh and Anjali Dubey, Riesz Summability of Factored Infinite Series Including Sequence and Fourier series,Turkish Journal of Computer and Mathematical Education,4087-4093,Vol.12(14),2021.
5. S.K.Sahani,**A. K. Thakur** & J.K.Kushwaha ,On a new application of Fourier series by Borel's method , NeuroQuantology , Vol. 19(12) , 81-85 ,2021.
6. **A.K.Thakur**,G.K.Singh and Anjali Dubey,Approximation of conjugate function related to Lipschitz and weighted class $(L_r, \xi(t))$ by product summability, Turkish Journal of Computer and Mathematical Education ,346-353 Vol. 13(2),2022 .
7. S.K. Sahani , **A. K. Thakur** and A.Dubey, Degree of Approximation of Conjugate of a Function Belonging to (N,p,q) Class by Matrix Summability Means of Conjugate Fourier Series, Mathematical Statistician and Engineering Applications ,2094-0343 ,2326-9865, 321 – 331, Vol 71 No. 4 ,2022.
8. **A. K. Thakur** and S.K.Sahu,Extension of Srivastava -Hyper Geometric Function, Stochastic Modeling & Applications , 0972-3641 , Vol. 26(3),729 – 735,2022 .
9. S.K.Sahani,**A. K. Thakur** and S.K.Sahu, On a new application of summation of Jacobi Series by B-Method, Journal of Algebraic Statistics , 3261 - 3268 Vol. 13(3),2022.
10. **A.K.Thakur**,S.K.Sahani and J.K.Kushwaha,Some applications of Quadruple Hypergeometric functions in functions Spaces,The Seybold Report,1533- 9211,Vol.17,894-903,2022.

11. S.K.Sahani, Gyan Prasad Paudel & **A. K. Thakur** , On a new application of positive and Decreasing Sequences to Double Fourier series associated with $(N, p_m^{(1)}, p_n^{(2)})$., Journal of Nepal Mathematical Society (JNMS), Vol.5 , Issue 2, 2022.
12. **A. K.Thakur**, S.K.Sahani and Surekha Dewangan, Development of Mittag-Leffler function of fractional differential operators , Jilin Daxue Xuebao (Gongxueban)/Journal of Jilin University (Engineering and Technology Edition) 1671-5497 , Vol.-41(12),2022.
13. J.K.Kushwaha,**A.K.Thakur**,S.K.Sahani and H. Suryawanshi, Existence and Convergence of Gamma Matrices and their application to infinite series,The Mathematics Education,0047-6269,16-30,Vol.LVII,No.2,2023.
14. **A.K. Thakur**,G. Das ,S. K. Sahani,H. Suryawanshi,Generalization of Fractional kinetic equation of Mittag-Leffler function using Laplace transform technique,Applied Science Periodical, 0972-5504,Vol.XXV,No.3,2023.
15. S. K. Sahani, **A. K. Thakur** and P.Chandra, Recent Applications of Multiple Hypergeometric Transformations in Function Spaces and Associated Reduction Formulas, Tuijin Jishu/Journal of Propulsion Technology ,1001-4055,1522-1535, Vol. 44 No. 3 ,2023.

❖ Training Courses

1. Thakur, A.K.,Sparklab Engineering System(P)Ltd. One week training on Matlab, Dr.C. V.Raman University , Bilaspur(C.G.). 2015.
2. Thakur, A.K ,Short term Advanced Training Programme on Integral Transforms, Distributions and Wavelet Analysis , Indian School of Mines , Dhanbad , Dec. 14-18 , 2015.
3. Thakur, A.K , Teaching Learning Evaluation , Faculty development program , ' One week (2-7 Jan) , IQAC Cell , Dr.C. V.Raman University , Bilaspur(C.G.). 2017.
4. Thakur, A.K , Entrepreneurship Development Program ' ' 3days training Program (7-9 May) , Dept. of Skill development , Dr.C. V.Raman University , Bilaspur(C.G.). 2015.
5. Thakur, A.K ,Saksham-Teaching with Technology Training (Microsoft) dated 29/12/2017 to 30/12/2017, Dr.C. V.Raman University , Bilaspur(C.G.).
6. Thakur, A.K, UGC-Sponsored 27th Orientation Programme dated 06/01/2020 to 25/01/2020 with obtained Grade 'A' at Guru Ghasidas Vishwavidyalaya(A Centre University) Human Resource Development Centre .
7. Thakur, A.K, Inculcating Universal Human Values in Technical Education ,AICTE ,Participation,Participation ,26-30 April,2020.
8. Thakur, A.K,Virtual Teaching,Teaching Learning Centre (Under PMMMNMTT, Department of Higher Education, MHRD, GoI) Coimbatore Institute of Technology (Government Aided Autonomous Institution),Participation ,April 20 & 21, 2020.

9. Thakur, A.K, Role of Latex in Scientific Writing , BBDNITT, Lucknow, 19-21 June, 2020.

❖ **Conferences /Seminars/Workshops**

1. A.K.Thakur, S.Panda, G .Sao, H.Suryavanshi, The associated results of Fourier- Weierstrass Transforms, ICMSA , GGV ,Bilaspur-2018.
2. Thakur,A.K,et al The Solution of integral equation of Triple Laplace Transforms, Presented , International Conference at LNCT ,Bhopal,13 June,2020.
3. Thakur, A.K.,Bhattacharya Sonali , Some theorem on bilateral Laplace Mellin integral transform , ISMAMS, National Conference ,2012.
4. Thakur, A.K.,Kakker K.K. , A mutual relationship between two integral transforms by using Laplace transforms , B.I.T, National Seminar. , Raipur ,2013.
5. Thakur, A.K, The Fuzzy sets and fuzzy logic'' Fuzzy-set, Govt. E. Raghvendra Rao P.G.Science college, National Workshop in mathematics, Bilaspur(Participated),2013.
6. Thakur, A.K. ,Gupta A. , The modified Fourier Bessel function theorem , CEC, National Conf. Bilaspur ,2013.
7. Thakur, A.K. , Matlab Workshop for two days , Dr.C. V.Raman University , Bilaspur(C.G.). 2014.
8. Thakur, A.K , Mathematical Models in Agriculture ; Quantities method for ecological Sciences, Organized by B.R.D Government P.G. college , Duddhi Sonbhadra (U.P.) Sponsored by Dept. of Higher Education , National Seminar 21-22 Feb. 2015 .
9. Thakur, A.K, Generalized Recurrence relation and integral of Mittag Leffler function,National conference on recent Advances in Physical Sciences , Govt. Kamladevi Rathi Girls P.G. College ,Rajnandgaon(C.G), dated 18-19 Nov.2019.

Date: 30/10/2023

Place: Bilaspur(C.G.)

Dr. A.K.Thakur