

**Prof. K. B. Panda, Ph.D.****Professor and Head**

Department of Statistics

Central University of Jharkhand, Cheri-Manatu, Kanke

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E-mail- [kbpanda@cuja.ac.in](mailto:kbpanda@cuja.ac.in)**Personal Information:**

<b>Full Name</b>	<b>Dr. Kunja Bihari Panda</b>
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<b>ORCID ID</b>	0009-0009-6349-7433
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<b>Researcher ID</b>	
<b>IRINS</b>	
<b>Journal Papers</b>	<b>46</b>
<b>Conference Papers</b>	<b>20</b>
<b>Sponsored Projects &amp; Consultancy</b>	<b>1</b>
<b>Book and Book Chapters</b>	<b>02</b>
<b>Doctoral Students</b>	<b>10</b>
<b>Brief Profile</b>	<p>Prof. K. B. Panda is currently working as Professor of Statistics in the Department of Statistics, Central University of Jharkhand. Prof. Panda accomplished his Post Graduation in Statistics from the Utkal University, Odisha with Rank 1(19983) followed by M. Phil. degree from Meerut University, Uttar Pradesh (1986) and Ph. D. degree from University of Delhi, Delhi (1995). He joined the Odisha Education Service (College Branch) in 1990 as Lecturer in Statistics. He served the second oldest College, the SKCG College, Parlakhemundi and a premiere College, the BJB College, Bhubaneswar before his posting as Asst. Director (Planning) in the Directorate of Higher Education, Odisha, Bhubaneswar. He joined the Utkal University in 2010 as Associate Professor of Statistics and in 2016 became Professor of Statistics. After his superannuation from the Utkal University on attaining 60 years in June, 2022, he was engaged as Professor of Practice (Statistics) in the Central University of Jharkhand wef 09 December, 2023, and currently Professor of Statistics on regular basis since 27 July, 2023. While five students have been awarded Ph. D. degree under his supervision, five are pursuing research right now. He has published 45 research papers in various national and international journals of repute.</p>

## **Educational Qualifications:**

1995	Ph.D. in Statistics from the University of Delhi with JRF (UGC)
1986	M.Phil. in Statistics from the Institute of Advanced Studies, Meerut University, UP
1983	M.Sc. in Statistics from the Utkal University, Bhubaneswar
1981	B.Sc. with Physics (Hons), Mathematics and Statistics (first class and distinction)
1979	I.Sc. from the Kendrapara College under the Utkal University
1977	Baladev High School, Kendrapara under the Board of Secondary Education, Orissa

## **Courses Taught:**

B.Sc., M.Sc. and Ph.D.

## **Additional Roles/ Responsibilities**

- Served Government of Odisha as Asst. Director in the Directorate of Higher Education from 2000 to 2002
- Discharged the responsibilities of a Deputy Controller of Examinations from 2002 to 2005, while in BJB Autonomous College
- Served as Asst. Coordinator, IGNOU Study Centre, BJB Autonomous College from 2005 to 2008 Worked as Accounts Bursar from 2008 to 2010 during my tenure in BJB Autonomous College Headed PG Dept. of Statistics, UU for three terms
- Managed PG Men's Hostel #2 from 2010 to 2012
- Appointed Course Director, M.Tech. (IT) for nearly 6 years in two terms Worked as Comptroller of Finance, UU for 7 months in 2 phases Appointed Course Coordinator, M.Sc. (Comp. Sc.) for 2 years Appointed Dy. Warden, PG Hostels from 2015 to 2017
- Appointed Director, School of Mathematics, Statistics and Comp. Sc. From 2019 to 2022
- Appointed Development Officer for 6 months
- Appointed Coordinator, University Department of Teacher Education from 2018 till 2022 Chairman, DRC and Chairman, BoS in Statistics
- Member, BoS in Statistics of other Universities and Autonomous Colleges Conducted various Workshops/Seminars/Conferences as Organizing Secretary
- Conducted International Conference very successfully as Organizing Secretary in 2019
- Elected Secretary and President, Utkal University Teachers' Association
- Secretary, Utkal University Teachers' Association (UUTA) for 03years
- President, Utkal University Teachers' Association (UUTA) for 06

months

- President, All Odisha University Teachers' Association (AOUTA) for 06 months
- Coordinator, Mo University Abhijan for 02 years
- Coordinator, UGC Alumni Connect for 02 years

## Professional Experience

- March 2010 – June 2022: As **Associate Professor since 2010 and Professor since 2016**, I taught Statistics to PG, M.Phil. and Ph.D. students in the **Department of Statistics, Utkal University**, guided M.Phil. and Ph.D. scholars. Headed the Department in 2011, 2015 and 2019 for a two-year period each. Held additional charges of the Coordinator, M.Sc. (Comp. Sc.) during 2011 –2013, Course Director, M.Tech. (IT) during 2011 – 2013 and 2018 – 2022, Coordinator, UDTE during 2018 – 2022, Superintendent Gents' Hostel - 2 from 2011 to 2013 **Comptroller of Finance** on two occasions for over six months, Deputy Warden, PG Hostels for more than three years, Development Officer for six months, Chairman, BoS, Chairman, DRC, Coordinator, Mo University Abhijan, Coordinator, Alumni Connect and Director, School of Mathematics, Statistics and Computer Science for over 3 years etc.
- Published **43** research articles in various national and international peer reviewed journals of repute, **one article** has been accepted for publication, **8** research papers have been communicated coauthored **2** books, guided **16 M.Phil.** scholars and **5 Ph.D.** scholars, **5** research scholars are currently pursuing Ph.D. (**for details, please refer to Annexure**)
- Presented papers in several national and international conferences, chaired more than **10** sessions, Examined at least **5** Ph.D. theses.
- Served as a member of selection committees.
- July 2002 – March 2010: Taught Statistics to UG students in the **BJB Autonomous College**, Bhubaneswar. Held additional posts of Deputy Controller of Examinations and Accounts Bursar etc.
- July 2000 – July 2002: Discharged duties in the **Directorate of Higher Education, Odisha**, Bhubaneswar against an administrative post to prepare Plan Budget and disburse funds to various colleges of the state.
- July 1995 – July 2000: Taught Statistics to UG students in the BJB Autonomous College. Held additional post of Deputy Superintendent and Coordinator, IGNOU Study Centre etc.
- May 1990 – July 1995: Taught Statistics to UG and PG students in the SKCG College, Parlakhemundi. Held additional post of NCC officer.
- Accomplished UGC Refresher Courses from the ISI, Kolkata and Shivaji university, Kolhapur

## Research and Teaching Interests

- Statistical Inference
- Sampling Techniques
- Design of Experiments
- Bio-Statistics

## Articles Published

S.No.	Details of the Article
1.	Agrawal, M.C. and Panda, K.B. (1993): Multivariate Product Estimators; Jour. Ind. Soc. Agrl. Stat. (JISAS), 45(3), 359 – 371

2.	Agrawal, M.C. and Panda, K.B. (1993): An Efficient Estimator in Poststratification; Metron, Vol. LI n. 3 – 4, 179 – 187
3.	Agrawal, M.C. and Panda, K.B. (1994): On Multivariate Ratio Estimation; Jour. Ind. Stat. Asso. (JISA), Vol. 32, 103 – 110
4.	Agrawal, M.C. and Panda, K.B. (1995): On Efficient Estimation in Poststratification; Metron, Vol. LIII n. 3 – 4, 107 – 115
5.	Agrawal, M.C. and Panda, K.B. (1995 – 1996): Predictive Estimation in Stratified Sampling; Aligarh Jour. Stat., Vol. 15 & 16, 41 – 48
6.	Agrawal, M.C. and Panda, K.B. (1998): Double Sampling for Poststratification: A Desirable and Viable Technique; Metron, Vol. LVI n. 3 – 4, 91 – 107
7.	Agrawal, M.C. and Panda, K.B. (1999): A Predictive Justification for Variance Estimation Using Auxiliary Information; Jour. Ind. Soc. Agrl. Stat.(JISAS), 52(2), 192 – 200
8.	Panda, K.B. and Sahoo, N. (2015): Systems of Exponential Ratio-based and Exponential Product-based Estimators with their Efficiency; IOSR Jour. Math., Vol. 11, 3, 73 – 77, p-ISSN: 2319 – 765X
9.	Panda, K.B. (2015): An Efficient Predictive Approach to Estimation in Two-phase Sampling; IOSR Jour. Math., Vol. 11, 3, 78– 81, p-ISSN: 2319 – 765X
10.	Panda, K.B. (2015): On Systematic Sampling Strategies for a Varying Sample Size; Recent Advances in Mathematics, Statistics and Comp. Sc.(Ed. Book), 267 – 277, ISBN: 978-981-4696-16-
11.	Sahoo, N. and Panda, K.B. (2015): Study on Product Estimation; Int. Jour. Multidisciplinary Research Review, Vol. 1, 10, 165 – 167, ISSN: 2395-1877
12.	Panda, K.B. and Sahoo, N. (2015): An Efficient Product-type Exponential Estimator of Finite Population Mean Using Variable Transformation; Int. Jour. Stat. Sc., Vol. 15, 13 – 19, ISSN: 2348-0580
13.	Panda, K.B. and Sahoo, N. (2016): An Efficient Exponential Ratio-type Estimator for Estimating Population Variance; Bull. Math. and Stat. Research, Vol. 4, 4, 51-56, ISSN: 2348-0580
14.	Panda, K.B. and Parida, S.S. (2016): The Chain Product Estimator with Linear Combination of Two Auxiliary Variables; Bull. Math. and Stat. Research, Vol. 4, 4, 132-135, ISSN: 2348-0580
15.	Panda, K.B. and Sahoo, N. (2016): Estimation of Finite Population Variance Using Auxiliary Information; Int. Jour. Math. Trend and Technology, Vol. 39, 3, 227 – 231, ISSN: 2231-5373

16.	Panda, K.B. and Sahoo, N. (2016): Improved Ratio-type Exponential Estimator for Estimating Population Variance Using Auxiliary Information; Int. Jour. Stat. and Systems, Vol. 11, 2, 187 – 195, ISSN:0973-2675
17.	Panda, K.B. and Sahoo, N. (2017): Estimation of Finite Population Mean Using Variable Transformation; Int. Jour. Agrl. Stat. Sc., Vol. 13, 1, 141 – 144, ISSN: 0973-1903
18.	Panda, K.B. and Sahoo, N. (2017): An Efficient Product Estimator Using Harmonic Mean; Int. Jour. Math. Trends and Technology, Vol. 50, 5, 276– 278, ISSN: 2231-5373
19.	Panda, K.B. and Sen, M. (2017): Efficient Ratio-type and Product-type Exponential Estimators; Int. Jour. Agrl. Stat. Sc., Vol. 13, 2, 639 – 644, ISSN: 0973-1903
20.	Panda, K.B. and Samantaray, M. (2017): Partitioned Ranked Set Sampling: Introduction to a New Efficient Estimation Technique; Int. Jour. Sci. Res. Rev. Vol. 6, 4 181 – 190, ISSN; 2279-0543
21.	Panda, K.B. and Sahoo, N.(2018): An Efficient Product-type Estimator of Finite Population Mean; Int. Jour. Res. App. Sc. Engg. Tech. Vol. 6, 2, 933– 936, ISSN: 2321-9653
22.	Panda, K.B. and Das, P. (2018): Efficient Hierarchic Predictive MultivariateProduct-based Estimator; Int. Jour. Sc. Res. Math. Stat. Sc., Vol. 5, 2, 65 –69, ISSN: 2231-5373
23.	Panda, K.B. and Das, P. (2018): Efficient Hierarchic Predictive MultivariateProduct Estimator Based on Harmonic Mean; Int. Jour. Math. Trend Tech.Vol. 56, 6, 14 - 18, ISSN: 0973-1903
24.	Panda, K.B., Das, P. (2018) and Sen, M.: Efficient Hierarchic Predictive Product Estimator Using Harmonic Mean; Int. Jour. Agrl. Stat. Sc., Vol. 14,2, 717 – 720, ISSN: 2231-5371
25.	Panda, K.B. and Samantaray, M. (2018): A New Product-type Estimator ofPopulation Mean and its Efficiency; Int. Jour. Math. Trend Tech., Vol. 53,6, 37 – 42, ISSN: 2231-5371
26.	Panda, K.B. and Sen, N. (2018): Efficient Ratio-type Exponential Estimator for Population Variance: Int. Jour. Sc. Res. Math. Stat. Sc. Vol. 5, 3, 129 –132, ISSN: 2348- 4519
27.	Panda, K.B. and Sen, M. (2018): Weighted Ratio-cum-Product Estimator for Finite Population Mean: Int. Jour. Sc. Res. Rev., Vol. 5, 4, 354 – 358, ISSN: 2348-4519
28.	Panda, K.B. and Samantaray, M. (2018): The Technique of Multistage Partitioned Ranked Set Sampling for Estimation of Population Mean; Int.Jour. Agrl. Stat. Sc., Vol. 14, 177 – 185, ISSN: 0973-1903

29.	Panda, K.B. and Sen, M. (2018) Efficient Product-type Exponential Estimator for Population Variance, Int. Jour. Sc. Res. Math. Stat. Sc.: Vol.7, 3, 1070 -1079, ISSN: 2348-4519
30.	Panda, K. B. and Parida, S.S.(2019): On Efficient Variance Estimation Techniques Using Multi-Auxiliary Information; Inter. Jour. Res. Anal. Rev.,IJRAR , Vol. 6, 2, 232-236, ISSN: 2348-1269
31.	Panda, K. B. and Parida, S.S. 2020: Exponential Ratio-Cum-Product Type Estimators For Finite Population Mean In Two-Phase Sampling WithEfficiency, Dogo Rangsang Research Journal, Vol. 10, Issue-12, No. 04, 68-72, ISSN: 2347-7180
32.	Panda, K.B. and Sahoo, N. (2020): An Efficient Exponential Ratio-type Estimator in Poststratification Using Variable Transformation, Int. Jour. Math. Stat.; Vol. 21, 1, 68 – 74, ISSN: 0974-71172378
33.	Panda, K.B. and Samantaray, M. (2020): Modified Ratio-cum-Product Type Estimator for Estimating Population Mean: DOGO, Rangsang Res. Jour., Vol. 10, 11, No. 9, 156 – 160, ISSN: 2347-7180
34.	Panda, K.B. and Samantaray, M. (2021): Modified Ratio Type Estimators Using Partitioned and Double Partitioned Ranked Set Sampling: Int. Jour.Stat. Rel. Engg., Vol. 8, 1, 184 – 190, ISSN(P): 2350-0174, ISSN(O): 2456-
35.	Panda, K.B. and Samantaray, M. (2021): A Modified Product Type Estimator for Estimating Population Mean Using Population Correlation Coefficient; Jour. Emer. Tech. and Inno. Res. Vol. 8, 8, 893 – 900, ISSN: 2349-5162
36.	Panda, K.B. and Das, P. (2021): Hierarchic Estimation for Population Variance; The Aligarh Jour. Stat., Vol. 41, 123-132, ISSN: 0971-0388
37.	Panda, K. B. and Parida, S.S. (2021): Efficient Hierarchic Ratio-Based and Product-Based Estimators of Population Mean Using Variable Transformatio; Inter. Jour. Agrl. Stat. Sci., Vol. 17, 2, 2021, ISSN: 0973-1903
38.	Panda, K.B., Sen, M., Acharya, S. and Pradhan, P.N.(2022): Empirical Study on Efficient Estimation Techniques for Population Variance in Agriculture: Green Farming, Vol. 12, 3 & 4, 148 – 152
39.	Sen, Manoranjan, Gowthaman, T., Panda, Kunja Bihari and Pradhan,Paramananda (2022): Statistical Trend and Forecasting Modeling of Air Pollutants in Bhubaneswar: Econophysics, Sociophysics & other Multidisciplinary Sciences, Vol. 10, 2, 21 – 33
40.	Panda, K.B. and Mohanty, P. (2022): An Efficient Ratio-cum-Product Estimator for Finite Population Mean; Inter. Jour. Sci. res. Math. Stat. Sci.,Vol. 9, 2, 1 – 6, ISSN: 2348-4591
41.	Panda, K.B. and Chattapadhyay, G. (2022): On Estimation of Finite Population Mean Using variants of Ratio and Product Estimators; Dogo Rangsang Res. Jour., Vol. 12, Issue 6, No. 3, ISSN: 2347- 7180

42.	Panda, K. B. and Parida, S.S.(2022): On Estimation of Finite Population Mean Using Information on Auxiliary Attribute in Sample Surveys; Inter.Jour. Stat. Relia. Engg., Vol. 9, 2, 213-218, ISSN(P): 2350-0174 ; ISSN(O):2456-2378)
43.	Panda, K.B. and Chattapadhyay, G. (2022) : On Efficient Regression Method of Estimation; Int. Jour. Math. Stat.; Vol. 24, 1(To appear in 2023)
44.	Panda, K.B. and Mohanty, P. (2022): On Estimation of Population Variance Using Ratio and Exponential Ratio Estimators (To appear in the Aligarh Journal of Statistics (AJS))
45.	Panda, K.B. and Samantaray, M. (2017): Double Partitioned Ranked Set Sampling: An Efficient Estimation Technique; Int. Jour. Res. App. Sc. Engg.Tech., Vol. 5, 9, 2231 – 2245, ISSN: 2321-9653

### Seminar/ Workshop/ Conference Participation:

S.No.	Title of the Invited Lecture delivered/Paper presented	Details of Conference / Seminar/ FDP and Organizing Institution	Category/Type of Event	Date of Presentation (yyyy-mm-dd)	Please select Invited Talk/Paper Presented
1	A New Ratio-cum-Product Type Estimator for Estimation of Population Mean	International Conference on Next Generation Management, RCM	International (within country)	2019-03-16	Paper Presented
2	An Efficient Weighted Regression Estimator for Finite Population Mean	WB-OHEPEE National Seminar on Statistical Methodology and Data Science	National	2019-03-16	Paper Presented
3	An Efficient Product-type Estimator of Population Mean	National Seminar on Future India; Science and Technology	National	2019-02-02	Paper Presented
4	An Efficient Exponential Ratio-type Estimator in Poststratification Using Variable Transformation	National Seminar on Operational Competitiveness in Service and Manufacturing Sector in 21st Century Statistics in Research: Trends and Applications	National	2018-02-24	Paper Presented
5	Model -based Regression Estimator with Efficiency	National Seminar on Statistics in Research: Trends and Applications	National	2018-04-15	Paper Presented
6	Hierarchic Predictive Estimation in Finite	UGC Sponsored National Seminar	National	2017-03-27	Paper Presented

	Population Sampling				
7	Role of Hypothesis Testing for Management Students	UGC Sponsored Refresher Course	National	2017-02-23	Invited Lecture
8	Life and Contributions of Prof. P.C. Mohalanobis	10th Statistics Day Celebration, Utkal University	National	2016-03-30	Invited Lecture
9	Model Assisted Survey Sampling and its Applications	Annual Seminar, BJB Autonomous College	State/University	2016-03-30	Resource Person
10	Contemporary Statistics	UGC Sponsored State Level Seminar	State/University	2016-03-01	Resource Person
11	Efficient Ratio-type and Product-type Estimators	48th Annual Convention of ORSI and Int. Conf.	International (within country)	2015-12-19	Resource Person
12	Model-based Systematic Sampling for a Varying Sample Size	48th Annual Convention of ORSI and Int. Conf.	International (within country)	2015-12-18	Resource Person
13	Applications of Decision Theory	Orientation Program, Utkal University	State/University	2015-08-11	Resource Person
14	Decision Theory for Management Science	Orientation Program, Utkal University	State/University	2015-08-11	Resource Person
15	On Predictive Estimation in Survey Sampling	National Seminar, Utkal University	National	2015-03-22	Resource Person
16	Variance Estimation Using Ranked Set Sampling	National Seminar, Utkal University	National	2014-11-18	Resource Person
17	Variance Estimation Using Postratification Technique	National Seminar, Utkal University	National	2014-03-29	Resource Person
18	Point Estimation	UGC Sponsored Refresher Course	National	2014-02-22	Resource Person
19	Data Sufficiency	UGC Sponsored Refresher Course	National	2014-02-14	Resource Person
20	Confidence Interval Estimation	UGC Sponsored Refresher Course	National	2014-03-06	Resource Person
21	Hypothesis Testing	UGC Sponsored Refresher Course	National	2014-03-08	Resource Person
22	Sample Surveys	Orientation Course	State/University	2008-01-10	Resource Person
23	Testing of Hypothesis	Orientation Course	State/University	2008-01-09	Resource Person
24	Probability Theory and Applications	Orientation Course	State/University	2008-01-08	Resource Person
25	Descriptive Statistics	Orientation Course	State/University	2008-01-07	Resource Person
26	Improved Multivariate Product Estimators	46th Annual Conference of ISAS	National	1993-02-21	Paper Presented



27	Multivariate Estimators	Product	Seventh International Conference on Multivariate Analysis	International (within country)	1992-12-20	Paper Presented
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### Awards and Honors

- Awarded PG Merit scholarship
- Stood topper in the M.Sc. (Statistics) Examination
- Awarded scholarship during M.Phil.
- Awarded JRF(UGC) during Ph.D.
- Stood topper in the OES Exam conducted by the OPSC

### Any Other Information

**Languages known:** Odia, Hindi and English, Keyboard skills with Word, Excel, Power Point and Statistical Packages, e g SPSS and R.

Gardening, Games and Sports: Volley, Badminton and Chess etc.

#### Interests

Popularizing Statistics education in India as the subject is highly interdisciplinary and has vast employment opportunities across the globe at present

Delivering popular and motivational lectures, quoting Shrimad Bhagavat Gita and Swami Vivekananda etc.

#### Life Member of Learned Society

- Indian Society for Probability and Statistics (ISPS)
- Operations Research Society of India (ORSI)
- Orissa Statistical Association (OSA)