



**Dr. AmarjitKundu**  
**Associate Professor**  
**In**  
**Mathematics**

**Academic Qualifications:**

M.Sc., Ph.D.

**Contact Details:**

Department of Mathematics,  
Raiganj University,  
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West Bengal, Pin-733134

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**Specialization:**

- i) Probability and Statistics
- ii) Graph Theory
- iii) Classical Mechanics

**Research Interest:**

Reliability, Applied Probability

**Research Area:**

Ordering and Aging Properties, Statistical Quality Control

**Research Experience:**19years

**Teaching Experience:**16 years

**Ph.D. Scholars:2**

**Post-Doctoral – Research Associate:Nil**

**Completed Research Projects:03**

**Ongoing Project: Nil**

**Administrative Experience:**

(i) Acted as a joint convener for the seminars

Recent Trends in Mathematical Sciences and Its Applications, Dept. of Math., Raiganj University, 14th -15st March, 2019

(ii) Member of Board of Studies, Raiganj University.

(iii) I am member of Under Graduate Board of Studies of Kalyani University since 26.08.2010.

(iv) I am Head of The Department of the Department of Statistics, Raiganj University.

**Publications:**

**Books: Nil**

**Research Papers:**

**i) National: 0**

**ii) International: 13**

**LIST OF PUBLICATIONS**

- HU, T., KUNDU, A. AND NANDA, A.K. (2001): "ON GENERALIZED ORDERINGS AND AGING PROPERTIES WITH THERE IMPLICATIONS", System and Bayesian Reliability, Essays in honour of Prof. R.E.Barlow on his 70th Birthday, Hayakawa, Y., Irony, T., and Xie, M. (eds.) World Scientific, New Jersey, Vol. 5, pp. 199-228.
- HU. T., KUNDU, A. AND NANDA, A.K.: (2007) "A NOTE ON BAYESIAN IMPERFECT REPAIR MODEL", JOURNAL OF APPLIED STATISTICAL SCIENCE, NOVA SCIENCE PUBLISHER, VOL. 15(4), PP. 407-411.
- NANDA, A.K. AND KUNDU, A. (2009): "ON GENERALIZED STOCHASTIC ORDERS OF DISPERSION TYPE", SPECIAL TRIENNIAL VOLUME OF CALCUTTA STATISTICAL ASSOCIATION BULLETIN, VOL. 61, PP. 155-182.
- NANDA, A.K. AND KUNDU, A. (2011): "COMPARISON OF TWO REPAIRABLE SYSTEMS", STATISTICS AND PROBABILITY LETTERS, ELSEVIER, VOL. 81, PP. 446-450. I.F.: 0.934

- NANDA, A.K. AND KUNDU, A. (2012): "ON IMPROVEMENT AND DETERIORATION OF REPAIRABLE SYSTEM UNDER GENERALIZED STOCHASTIC ORDERS", SPECIAL TRIENNIAL VOLUME OF CALCUTTA STATISTICAL ASSOCIATION BULLETIN, VOL. 63, PP. 259-272.
- KUNDU, A. AND NANDA, A.K. (2016): "ON STUDY OF DYNAMIC SURVIVAL AND CUMULATIVE PAST ENTROPIES", COMMUNICATION IN STATISTICS: THEORY AND METHODS, TAYLOR & FRANCIS, VOL. 45(1), PP. 104-122. I.F.: 0.518, ISSN: 0361-0926
- KUNDU, A. AND CHOWDHURY, S. (2016): "ORDERING PROPERTIES OF ORDER STATISTICS FROM HETEROGENEOUS EXPONENTIATED WEIBULL MODELS", STATISTICS AND PROBABILITY LETTERS, ELSEVIER, VOL. 114, PP. 119-127. I.F.: 1.112, ISSN: 0167-7152
- KUNDU, A., CHOWDHURY, S., NANDA, A. K. AND HAZRA, N. K. (2016): "SOME RESULTS ON MAJORIZATION AND THEIR APPLICATIONS", JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, ELSEVIER, VOL. 301, PP. 161–177. I.F.: 1.632, ISSN: 0377-0427
- KUNDU, A. AND KUNDU, C. (2016): "BIVARIATE EXTENSION OF (DYNAMIC) CUMULATIVE PAST ENTROPY", COMMUNICATION IN STATISTICS: THEORY AND METHODS, TAYLOR & FRANCIS, VOL. 46(9), PP. 4163-4180. I.F.: 0.518, ISSN: 0361-0926
- CHOWDHURY, S. AND KUNDU, A. (2017): "STOCHASTIC COMPARISON OF PARALLEL SYSTEMS WITH LOG-LINDLEY DISTRIBUTED COMPONENTS", OPERATIONS RESEARCH LETTERS, VOL. 45, PP. 199-205. I.F.: 0.813, ISSN: 0167-6377.
- KUNDU, A. AND CHOWDHURY, S. (2018): "ORDERING PROPERTIES OF SAMPLE MINIMUM FROM KUMARASWAMY-G RANDOM VARIABLES", STATISTICS, TAYLOR& FRANCIS, VOL. 52(1), 133-146, ISSN: 0233-1888.
- KUNDU, A. AND KUNDU, C. (2018): "BIVARIATE EXTENSION OF GENERALIZED CUMULATIVE PAST ENTROPY", COMMUNICATION IN STATISTICS: THEORY AND METHODS, TAYLOR & FRANCIS, VOL. 47(8), 1962-1977. I.F.: 0.518, ISSN: 0361-0926
- NANDA, A.K., MAITI, S.S., KUNDU, C. AND KUNDU, A (2019): "PARAMETER ESTIMATES OF GENERAL FAILURE RATE MODEL: A BAYESIAN APPROACH", JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, ELSEVIER, VOL. 351, PP. 317–330. I.F.: 1.632, ISSN: 0377-0427
- KUNDU, A. AND CHOWDHURY, S. (2019): "ORDERING PROPERTIES OF THE LARGEST ORDER STATISTICS FROM KUMARASWAMY-G MODELS UNDER RANDOM SHOCKS", COMMUNICATION IN STATISTICS: THEORY AND METHODS, TAYLOR & FRANCIS, VOL. 47(24). I.F.: 0.518, ISSN: 0361-0926

### **Papers presented in conferences /seminars/ workshops**

<b>Sl. No.</b>	<b>Title of the Paper Presented</b>	<b>Title of Conference / Seminar</b>	<b>Date(s) of the Event</b>	<b>Organized by</b>
1	On Improvement and Deterioration of a Repairable System Under Generalized Stochastic Orders.	International Conference on Statistics, Probability, Operations Research, Computer Science and Allied Area.	04.01.2010-08.01.2010.	Andhra University, Visakhapattanam
2	Comparison of Two Repairable Systems.	International Conference on Development and Applications of Statistics in Emerging Areas of Science & Technology.	08.12.2010-10.12.2010.	Jammu University, Jammu,
3	On Study of Dynamic Survival Entropy.	XXXI Annual Convention of Indian Society for Probability and Statistics (ISPS) and International Conferences on Statistics, Probability and Related Areas.	19.12.2011-22.12.2011.	Cochin University of Science and Technology, Cochin,
4	Ordering and Aging Properties of Random Variables with Application on Repairable System.	The 12th International Conference of Tensor Society (Japan) on Differential Geometry and Its Applications and Informatics Besides.	17.12.2012-21.12.2012	University of Calcutta, Calcutta,
5	Study of Dynamic Survival Entropy and Cumulative Past Entropy of Order $\alpha$	International Conference Statistics, Science and Society: New Challenges and Opportunities	02.01.2013-05.01.2013	Chennai,
6	On study of Generalized Cumulative Entropy of Order $\alpha$ and Type $\beta$	International Conference on Recent Advances in Statistics and Their Applications	26.12.2013-28.12.2013	ISPS and Aurangabad University

7	On majorization and majorization ordering	Emerging trends in Applied Mathematics	12.02.2014-14.02.2014	Department of Applied Mathematics, Calcutta University
8	Ordering Properties of Order Statistics from Heterogeneous Exponential populations	Recent Trends in Mathematics and Its Applications , 2015	18.03.2015-19.03.2015	Department of Applied Mathematics with Ocenology and Computer Programming
9	On Bivariate Dynamic Cumulative Past Entropy	International Conference on Celebrating Statistical Innovation and Impact in a World Big & Small Data	20.12.2015-24.12.2015	Department of Statistics & Centre for Advanced Studies, SavitribaiPhule Pune University
10	Ordering Properties of Largest Statistics from Heterogeneous Generalized Exponential Populations	International Conference on Statistics for Twenty-first Century-2015	17.12.2015-19.12.2015	Department of Statistics, University of Kerala, Trivundrum
11	On Generalized Orderings and Their Implications.	Seminar on Reliability Theory and Its Applications.	21.06.2001-23.06.2001	University of Pune, Pune,
12	On Generalized Dispersion Type Variability Orders.	National Seminar on Recent Advances in Operational Research and Related Computational Aspects.	22.08.2007-23.08.2007	University of Calcutta, Calcutta,
13	Ordering and Aging Properties of Random Variables.	National-Level Seminar on Application of Mathematics in Science and Social Science.	10.01.2012-11.01.2012	NabadwipVidyasagar College, Nabadwip,

14	On Study of Dynamic Survival Entropy and Cumulative Past Entropy.	National Conference on Application of Statistics in Industry and Planning.	25.02.2012-27.02.2012	Visva-Bharati University, Santiniketan,
15	"On entropy and Entropy Ordering"	National Seminar on Mathematics and Mathematical Sciences	27.12.2012-28.12.2012	Jointly by Department of Pure and Applied Mathematics, University of Calcutta
15	Bivariate Extension of (Dynamic) Cumulative Past Entropy	National Conference on Advances in Theoretical and Applied Statistics	11.02.2015-13.02.2015	Panjab University Chandigarh
16	Ordering and Aging properties of Random Variables with Application on Repairable System	One day State level Seminar on Present Day Mathematics and Its Applications	30.01.2015	K. K. Das College
17	On Comparison of two series and parallel systems with location-scale distributed components	2017 IISA International Conference on Statistics, Pune	27.12.2017-30.12.2018	International Indian Statistical Association
18	Stochastic Comparison of Two Series and Parallel Systems with finite range distributed component	International Conference on New Paradigms in Statistics for Scientific and Industrial Research	04.01.2018-06.01.2018	Indian Association for Productivity, Quality Control and Reliability and CSIR-CGRI

### **Invited Lectures and Chairmanships at National or International Conference/Seminar etc.**

<b>Sl. No.</b>	<b>Title of Lecture/Academic Session</b>	<b>Title of Conference/Seminar</b>	<b>Organized by</b>	<b>Whether International / National</b>	<b>API Score</b>
1	An Introduction to Probability and Statistics	Workshop on Mathematical Science	Centre for Mathematics Education, VisvaBharati University	National	5
2	Introduction to Probability and Statistics	Workshop on Probability and Statistics	University of GourBanga	National	5
3	Session Organizer	International Conference on Statistics for Twenty-first Century-2015	Department of Statistics, University of Kerala, Trivundrum	International Conference	10
4	Miscellaneous Contributed Topics XIV	International Conference on Celebrating Statistical Innovation and Impact in a World Big & Small Data	Department of Statistics & Centre for Advanced Studies, Savitribai Phule Pune University	International Conference	10

### **Some other relevant information's:**

- Reviewer of the journal "Statistics and Probability Letters" of Elsevier.
- Reviewer of the journal "Communications in Statistics: Theory and Methods" of Taylor and Francis.
- Reviewer of the journal "Naval Research Logistics" of John Wiley and Sons.
- Reviewer of the journal "International Journal of Reliability and Safety (IJRS)".
- Reviewer of the Journal "Statistics" of Taylor and Francis.
- Reviewer of the Journal "IIMB Management Review" of Elsevier
- Life member of International Indian Statistical Association.
- Life member of Indian Association for Productivity, Quality Control and Reliability.
- Life member of Calcutta Mathematical Society.