

# CURRICULUM VITAE

## RABINDRA NATH DAS

Associate Professor

Department of Statistics, The University of Burdwan  
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**DATE: May 14, 2014**

### EDUCATION

- 2002 Ph.D. Statistics (Design of Experiments) The University of Burdwan,  
Burdwan, West Bengal (W.B.), India
- 1994 Bachelor Teacher's Training The University of Kalyani, Kalyani, W. B., India
- 1989 M.Sc. Statistics The University of Kalyani, Kalyani, W. B., India
- 1985 B.Sc. Statistics (Honors), Major: Math. & Physics The University of Kalyani,  
Kalyani, W. B., India

### APPOINTMENTS

- 2007- present Associate Professor, Statistics Dept., The University of Burdwan,  
Burdwan, W.B., India
- 2006-2007 Postdoctoral Research Fellow, Statistics Dept., Seoul National University,  
Seoul, South Korea (for one year)
- 2005-2009 Guest Faculty, Adult Education Dept., The University of Burdwan, India
- 2003-2007 Senior Assistant Professor, Statistics Dept., The University of Burdwan  
Burdwan, W.B., India
- 2004-2006 Guest Faculty, Zoology Dept., The University of Burdwan, Burdwan, India
- 2003-2006 Guest Faculty, Environmental Science Dept., The University of Burdwan  
Burdwan, W.B., India
- 2001-2003 Assistant Professor, Statistics Dept., The University of Burdwan, Burdwan  
W.B., India
- 1999-2001 Assistant Professor, Bidhan Nagar Govt. College, Kolkata, W.B., India
- 1991-1999 Assistant Master, (Higher Secondary School Level or X + 2 levels),  
Ballyguange, Bidhan Nagar Govt. Higher Secondary School, Kolkata, India
- 1991 Junior Research under Council of Scientific and Industrial Research (CSIR)  
Fellow, Indian Statistical Institute, Stat-Math Unit, Kolkata, W.B., India
- 1990-1991 Junior Research University Fellow, Statistics Dept., The University of  
Kalyani, Kalyani, Nadia, W.B., India

## Curriculum Vitae of Rabindra Nath Das

### AWARDS, FELLOWSHIPS AND HONORS

- 2013 Appointed as a Board Member, International Journal of Statistics and Mathematics (IJSM), Premier Publishers
- 2012 Appointed as an Editor of Advanced Journal of Physical Sciences (AJPS) (ACCESS International Journals) (from 22nd September, 2012)
- 2011 Certificate of Appreciation for outstanding Research by Editor-In-Chief, Journal *Thyroid Science*, given in the Journal Website (for the paper– Das, R.N. (2011). “The Role of Iodine in the Thyroid Status of Mothers and Their Neonates,” *Thyroid Science*, Vol. 6, No. 2, pp. 1-15.)
- 2009 ‘Gopal Kanji Prize 2009’ by The Journal of Applied Statistics and Routledge Publications for our article published in Volume 36, No. 7, pp. 755-767 (Das, R.N. and Park, S.H. (2009). ‘A measure of robust slope-rotatability for second-order response surface experimental designs’)
- 2006-07 Post-Doc Research Fellowship, Seoul National University, BK-21, Republic of Korea
- 1991 Junior Research Fellowship, Council of Science and Industrial Research, Govt. of India
- 1990-1991 Junior Research Fellowship, West Bengal State Govt., India
- 1985 National Scholarship, Govt. of India
- 1980 National Scholarship, Govt. of India

### SCHOLARLY ACTIVITIES

\* **Editor:** (ACCESS International Journals) Advanced Journal of Physical Sciences (AJPS)

\* **Reviewer of Master’s Thesis:** Visva Bharati University, Shantinekatan, W.B., India

## Curriculum Vitae of Rabindra Nath Das

\* Manuscript reviewer of the following journals:

### Statistics Journals:

- Journal of Applied Statistics, UK, Taylor & Francis, Routledge Publication
- Journal of Communications in Statistics, USA, Taylor & Francis Publication
- Journal of Korean Statistical Society, South Korea, Elsevier Publication
- Pakistan Journal of Statistics, Pakistan
- Journal of Statistical Theory and Applications, U.S.A.
- Model Assisted Statistics and Applications, IOS Press Publication
- Bioinformatics, U.K.
- Environmental and Ecological Statistics
- International Journal of Distributed Sensor Networks
- Calcutta Statistical Association Bulletin, Calcutta, W.B., India
- ProbStat Forum, India
- Journal of the Indian Statistical Association, India
- Journal of the Kerala Statistical Association, India

### Medical Journals:

- Thyroid, The Official Journal of the American Thyroid Association, USA
- Journal IIE Transaction on Health Care System Engineering, USA, Taylor & Francis Publication

## Curriculum Vitae of Rabindra Nath Das

### GRANTS

- 2006-2007 **Principal Investigator**, entitled *Regression analysis with correlated errors and its applications in block designs*, The University of Burdwan, Burdwan, W.B., India, Minor Research Project, UGC, Govt. of India, Rs. 45,000
- 2002-2003 **Principal Investigator**, entitled- *Robust Rotatable Designs and its Applications in Reliability Theory*, The University of Burdwan, Burdwan, W.B., India, Minor Research Project, UGC, through The University of Burdwan, Rs. 11,000

### TEACHING EXPERIENCES: 21 + YEARS

\* **Master's Degree (Graduate Levels, 11 + years):** I have about 11 + years of teaching experience at Master's Levels of The University of Burdwan (Burdwan, W.B., India) students. In Master's Degree Level Statistics courses, I have been teaching Design of Experiments, Linear Models, Regression Analysis, Statistical Data Analysis, Sample Survey, Sampling Distributions, Epidemiology, etc. In Master's Degree Zoology courses, I have taught Bio-statistics. In Master's Degree Environmental Science courses, I have taught Environmental Statistics. In Master's Degree Diploma courses of Population Studies, I have taught Demography and Basic Statistics.

\* **Bachelor's Degree (Under Graduate Levels, 2 years):** I have about 2 years of teaching experience at Bachelor's Degree Levels of Bidhan Nagar Govt. College (Kolkata, W.B., India) students. I have taught Statistics Honours (Descriptive Statistics, Probability Theory, Sampling Distributions, Linear Algebra, Numerical Analysis, Econometrics, etc.) and Statistics Pass (Descriptive Statistics, Probability Theory, Sampling Distributions, Econometrics) courses.

\* **Higher Secondary (X + 2) Levels (8 years):** I have about 8 years of teaching experience at Higher Secondary (X + 2) Levels of Ballygaunge & Bidhan Nagar Govt. Higher Secondary Schools (Kolkata, W.B., India) students. I have taught all courses of Statistics at (X + 2) Levels.

#### A. List of courses taught:

1. M. Sc. Statistics 4 Semesters course
2. M. Sc. Statistics 2 years course
3. M. Sc. Zoology 2 years course
4. M. Sc. Environmental Science 2 years course
5. P.G. Diploma Population Studies 1 year course

## Curriculum Vitae of Rabindra Nath Das

6. B. Sc. Statistics 3 years Honours course
7. B. Sc. Statistics 2 years Pass course
8. Higher Secondary (X + 2) Statistics 2 years course

### B. As Adjunct Faculty and Courses Director:

#### Statistics Department:

1. **Chairman**, M. Sc. Statistics 4 Semesters course, Statistics Dept., The University of Burdwan, Burdwan, W.B., India
2. **Chairman**, B. Sc. Statistics (Honours) (3 years course), The University of Burdwan, Burdwan, W.B., India
3. **Chairman**, B. Sc. Statistics (General) (3 years) course, The University of Burdwan, Burdwan, W.B., India
4. **Convener**, B. Sc. Statistics (Honours) (3 years) course, The University of Burdwan, Burdwan, W.B., India
5. **Convener**, B. Sc. Statistics (General) (3 years) course, The University of Burdwan, Burdwan, W.B., India,

#### Bio-Technology Department:

6. **Convener**, B. Sc. Part II (Honours) Bio-Technology Examination (3 years course), The University of Burdwan, Burdwan, W.B., India

#### Bio-Chemistry Department:

7. **Convener**, B. Sc. Part II (Honours) Bio-Chemistry Examination (3 years course), The University of Burdwan, Burdwan, W.B., India

### C. As Research Advisor:

\* **Ph. D. course:** One Ph. D. Thesis entitled- "Models for Couple Fertility and Related Inference Procedures" has been awarded Ph. D. degree by one of my student Mr. Shankar Dihidar on October 18, 2012, and another student is working on design of Experiments (for Ph. D. Thesis) under my supervision, Dept. of Statistics, The University of Burdwan, Burdwan, W.B., India

\* **Master's Degree course:** Every year on average 4/5 students are working (for Master's Degree Project) under my supervision, Dept. of Statistics, The University of Burdwan, Burdwan, W.B., India

### D. Memberships in Professional Societies:

\* Life member of Calcutta Statistical Association, Kolkata, W.B., India

## Curriculum Vitae of Rabindra Nath Das

### CITIZENSHIP ACTIVITIES:

- \* Board Member, Primer International Journal of Statistics,
- \* Editor, Advanced Journal of Physical Sciences (Access International Journals),
- \* Member of the Faculty Council, The The University of Burdwan, Burdwan, W.B., India
- \* Examiner of M. Sc. Thesis of Visva Bharati University, Shantinekatan, W.B., India
- \* Reviewer of Manuscripts for Journals: Journal of Applied Statistics, Communications in Statistics & Methods, Bioinformatics, Journal of Korean Statistical Society, Pakistan Journal of Statistics, Calcutta Statistical Association Bulletin, ProbStat Forum, Journal of the Indian Statistical Association, Model Assisted Statistics and Applications, Journal of Statistical Theory and Applications, Journal of the Kerala Statistical Association, Thyroid, Journal IIE Transaction on Health Care System, Engineering.

### INVITED LECTURES:

1. Invited speaker in the National Seminar on Recent Advances in Applied Statistics & its applications in Forestry Research, from April 15–17, 2013, at Jabalpur Tropical Forest Research Institute, and presented a paper entitled- “Invariant Robust First Order Designs for Lifetime Distributions”.
2. Invited speaker in the 8th International Triennial Calcutta Symposium on Probability and Statistics, Dept. of Statistics, Calcutta University, on December 27–30, 2012 and presented a paper entitled- ‘Robust First Order Designs for Lifetime Distributions’.
3. Invited speaker in the National Seminar on Reliability: Theory & Practice, from January 28-29, 2011, Department of Statistics, Calcutta University, presented a paper entitled- “Lifetime distribution variance: Constant or non-constant?”
4. Presented an invited paper entitled- “Randomized block design with correlated errors,” on October 7, 2010, in the Department of Statistics, Chonnam National University, Gwangju 500-757, South Korea.
5. Presented an invited talk entitled- “What is Statistics?,” on October 14, 2010, in the Department of Statistics & Information Science, Dongguk University, Gyeongju 714-780, South Korea.
6. Presented an invited paper entitled- “ Robust rotatable designs and its applications in reliability theory,” on October 12, 2005, in the Department of Statistics, Seoul National University, Seoul 151-747, South Korea.

### PERSONAL INFORMATION

- \* **Marital status:** Married
- \* **Citizenship:** Indian
- \* **Residency:** Permanent residency India

## Curriculum Vitae of Rabindra Nath Das

### BRIEF RESEARCH EXPERIENCES & MAJOR RESEARCH AREA OF INTERESTS:

**Title of my Ph. D. Thesis: SOME CONTRIBUTIONS TO ROBUST ROTATABLE DESIGNS WITH APPLICATIONS IN RELIABILITY THEORY**

#### \* **Theoretical Statistics:**

1. Response Surface Design of Experiments–Rotatability & Slope-rotatability
2. Block Design of Experiments
3. Regression Analysis
4. Quality Engineering
5. Generalized Linear Models (GLMs) and joint GLMs

#### \* **Applied Statistics:**

6. Quality & reliability improvement experiments; 7. Demography
8. Genetics; 9. Hydrogeology; 10. Bio-statistics; 11. Medical Science
12. Epidemiology on Thyroid disease, Liver disease, Diabetes, Carcinoma etc.

#### \* **LIST OF PUBLICATIONS:**

**Research Monograph:** Das, R.N. (2014). *Robust Response Surfaces, Regression, and Positive Data Analyses*, Chapman & Hall, CRC Publication, London, Cat/ISBN: K14635/9781466506770 (ISBN-10: 1466506776 / ISBN-13: 978-1466506770).

#### **Papers Published and Accepted**

1. Das, R.N. (2014a). Determinants of Diabetes Mellitus in the Pima Indian Mothers and Indian Medical Students, *The Open Diabetes Journal*, Vol. 7, pp. 5-13 (Open Access) (SCOPUS).
2. Das, R.N. and Park, J.S. (2014). A reinforced randomized block design with correlated errors, *Communications in Statistics & Methods*, Vol. 43, No. 1 pp. 191-209; DOI: 10.1080/03610926.2011.650272 (SCIE).
3. Das, R.N., Devi, R.S. and Kim, J. (2014). Mothers' lifestyle characteristics impact on her neonates' low birth weight, *Women Health and Reproductive Sciences*, Vol. 2, No. 4, pp. 229–235.
4. Das, R.N. (2014b). 'On Estimating the Optimal Process Parameters in Quality Engineering using Generalized Linear Models Approach', *Model Assisted Statistics and Applications*, Vol. 9, No. 3, pp. (Special Issue), 2014 (in Press)(SCOPUS).
5. Das, R.N., Pal, P. and Park, S.H. (2014). "Modified robust second order slope-rotatable designs", *Communications in Statistics & Methods*, Vol. 43, No., pp. (in Press) (SCIE).

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6. Grover, G., Das, R.N., Swain, P.K. and Deka, B. (2013). On the Estimation of Survival of HIV/AIDS Patients on Antiretroviral Therapy Using NPMLE Method: An Application to Interval Censored Data, *American Journal of Mathematics and Statistics*, Vol. 3 No. 4, pp. 213-219 DOI: 10.5923/j.ajms.20130304.05
7. Das, R.N. (2013). Relationships of liver biochemical parameters and effects of wine drinking, *Model Assisted Statistics and Applications*, Vol. 8, No. 2, pp. 163-175; DOI 10.3233/MAS-130258 (SCOPUS).
8. Das, R.N. and Dihidar, S. (2013). Determinants of causal factors on child mortality, *Journal of the Indian Statistical Association*, Vol. 51(2), pp. (in Press).
9. Das, R.N. (2013). Discrepancy in classical lifetime model classes: Some illustrations, *Journal of Quality*, Vol 20(5), pp. 521-533. (SCOPUS)
10. Das, R.N. and Sarkar, P.K. (2012). Lifestyle Characteristics and Dietary impact on Plasma Concentrations of beta-carotene and Retinol, *BioDiscovery*, September, 2012, Issue 3, 3, pp. 1-12; DOI: 10.7750/BioDiscovery,2012.3.3
11. Das, R.N. (2012). Discrepancy in fitting between log-normal and gamma models: An illustration, *Model Assisted Statistics and Applications*, Vol 7, No. 1, pp. 23-32; DOI: 10.3233/MAS-2011-0198; (SCOPUS)
12. Das, R.N. and Kim, J. (2012). GLM and joint GML techniques in hydrogeology: An illustration, *International Journal of Hydrology Science and Technology*, Vol. 2, No. 2, pp. 185-201.
13. Das, R.N. and Park, J.S. (2012). Discrepancy in regression estimates between Log-normal and Gamma: Some case studies, *Journal of Applied Statistics*, Vol. 39, No. 1, pp. 97-111 (SCIE); DOI: 10.1080/02664763.2011.578618
14. Das, R.N. (2011d). Dual response surface methodology: Applicable always?, *Prob-Stat Forum*, Vol. 4, pp. 98-103.
15. Das, R.N. and Lin, D.K.J. (2011). On D-optimal robust first order designs for lifetime improvement experiments, *Journal of Statistical Planning and Inference*, Vol. 141, No. 12, pp. 3753-3759; (SCIE); DOI: 10.1016/j. jspi. 2011.06. 011
16. Das, R.N. and Huda, S. (2011). On D-optimal robust designs for exponential lifetime distribution, *Journal of Statistical Theory and Applications*, (Special Issue), Vol. 10, No. 2., pp. 198-208.
17. Das, R.N. (2011c). Modeling of Biochemical Parameters, *Model Assisted Statistics and Applications*, Vol. 6, No. 1, pp. 1-12 DOI:10.3233/MAS-2009-0148 (SCOPUS).
18. Das, R.N., Dihidar, S. and Verdugo, R. (2011). Infant mortality in India: Evaluating Log-Gaussian and Gamma, *Open Demography Journal*, Vol. 4, pp. 34-41. DOI: 10.2174/ 1874918601104010034
19. Das, R.N. (2011b). Resistivity Distribution: Gamma or Else Other?, *Journal of Quality*, Vol. 18, No. 1, pp. 49-60. (EI Compendex and SCOPUS)



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20. Das, R.N. (2011a). The Role of Iodine in the Thyroid Status of Mothers and Their Neonates, *Thyroid Science*, Vol. 6, No. 2, pp. 1-15. (Certificate of Appreciation for Outstanding Research of this paper by Editor-In-Chief, is given in the Journal Website)

21. Das, R.N. and Lee, Y. (2010). Analysis strategies for multiple responses in quality improvement experiments, *International Journal of Quality Engineering and Technology*, Vol. 1, No. 4, pp. 395-409.

22. Das, R.N. (2010). Regression Analysis for Correlated Data, *Journal of Quality Technology and Quality Management*, Vol. 7, No. 3, pp. 263-277.

23. Das, R.N., Park, S.H., and Aggarwal, M. L. (2010b). Robust Second Order Slope-rotatable Designs With Maximum Directional Variance, *Communications in Statistics & Methods*, Vol. 39, No. 5, pp. 803-814; DOI: 10.1080/03610920902796064 (SCIE)

24. Das, R.N., Park, S.H., and Aggarwal, M. L. (2010a). On D-optimal robust second order slope-rotatable designs, *Journal of Statistical Planning and Inference*, 140 (5), pp. 1269-1279; DOI: 10.1016/j.jspi.2009.11.012 (SCIE)

25. Das, R.N. and Park, S.H. (2010). On D-optimal robust first order designs, *Journal of Statistical Theory and Applications*, Vol. 9, No. 2, pp. 217-232.

26. Park, S.H., Jung S.H. and Das, R.N. (2009). Slope-rotatability of Second Order Response Surface Regression Models with correlated error, *Journal of Quality Technology and Quality Management*, Vol. 6, No. 4, pp. 471-493.

27. Das, R.N. and Mukhopadhyaya, B.B. (2009). Affects of thyroid function and maternal urinary iodine on neonatal weights, *Journal of Neonatal Nursing*, Vol. 15, pp. 204-211; DOI: 10.1016/j.jnm.2009.07.012 (SCOPUS)

28. Kim, J., Das, R.N., Sengupta, A., and Paul, J. (2009). Regression Analysis for Correlated Data under Compound Symmetry Structure, *Journal of Statistical Theory and Applications*, Vol. 8, No. 3, pp. 269-282.

29. Das, R.N. and Park, S.H. (2009). A Measure of Robust Slope Rotatability for Second Order Response Surface Designs, *Journal of Applied Statistics*, Vol. 36, No. 7, pp. 755-767. DOI: 10.1080/02664760802499345 (SCIE) ('Gopal Kanji Prize 2009' by The Journal of Applied Statistics and Routledge publications for our article published in volume 36(7), pp. 755-767 of the journal, entitled- 'A measure of robust slope-rotatability for second-order response surface experimental designs').

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30. Das, R.N. (2009). Response Surface Methodology in Improving Mean Life Time, *ProbStat Forum*, Vol. 2, pp. 8-20. <http://www.probstat.org.in>.
31. Das, R.N. and Lee, Y.J. (2009). Log-normal versus gamma models for analyzing data from quality-improvement experiments, *Quality Engineering*, Vol. 21, No. 1, pp. 79-87. DOI: 10.1080/08982110802317372 (SCOPUS)
32. Das, R.N. and Park, S.H. (2008c). On exact D-optimal robust designs with tri-diagonal errors, *Journal of Advances and Applications in Statistics*, Vol. 9(1), pp. 37-51; (<http://www.pphmj.com>).
33. Das, R.N. and Park, S.H. (2008b). On efficient robust rotatable designs with auto-correlated errors, *Journal of the Korean Statistical Society*, 37(2), pp. 97–106. [www.elsevier.com/locate/jkss](http://www.elsevier.com/locate/jkss). DOI:10.1016/j.jkss.2007.08.003 (SCIE)
34. Das, R.N. and Park, S.H. (2008a). Analysis and Multiple Comparison of Treatments of an Extended Randomized Block Design with Correlated Errors, *Journal of Statistical Theory and Applications*, Vol. 7(3), pp. 245-262.
35. Das, R.N. and Lee, Y.J. (2008). Improving resistivity of urea formaldehyde resin through joint modeling of mean and dispersion, *Journal of Quality Engineering*, Vol. 20(3), pp. 287-295. DOI: 10.1080/08982110701866180 (SCOPUS)
36. Das, R.N. Park, S.H. (2007). A Measure of Robust Rotatability for Second Order Response Surface Designs, *Journal of the Korean Statistical Society*, 36(4), pp. 557–578, (SCIE).
37. Das, R.N. and Park, S.H. (2006). Slope-rotatability over all directions with correlated errors, *Appl. Stochastic Models Bus. Ind.*, 22, pp. 445-457; ([www.interscience.wiley.com](http://www.interscience.wiley.com)). DOI: 10.1002/asmb.655 (SCIE).
38. Das, R.N. (2004) . Construction and Analysis of Robust Second Order Rotatable Designs, *Journal of Statistical Theory and Application*, 3(1), pp. 325-343.
39. Das, R.N. (2003a). Slope Rotatability With Correlated Errors, *Cal. Statist. Assoc. Bull.*, Vol. 54 , pp. 57-71.
40. Das, R.N. (2003b). Robust Second Order Rotatable Designs: Part-III (RSORD), *Journal of the Indian Society of Agricultural Statistics*, 56(2), pp. 117-130.

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41. Mukhopadhyay, A.C., Bagchi, S.B. and Das, R.N. (2002). Improvement of Quality of a System Using Regression Designs, *Cal. Statist. Assoc. Bull.*, Vol. 53, pp. 225-233.

42. Das, R.N. (1999). Robust Second Order Rotatable Designs: Part-II (RSORD), *Cal. Statist. Assoc. Bull.*, 49, pp. 65-78.

43. Das, R.N. (1997). Robust Second Order Rotatable Designs: Part-I (RSORD), *Cal. Statist. Assoc. Bull.*, 47, pp. 199-214.

44. Panda, R.N. and Das, R.N. (1994). First Order Rotatable Designs With Correlated Errors (FORDWCE), *Cal. Statist. Assoc. Bull.*, 44, pp. 83-101.

### Papers Communicated:

1. Mondal, S.K., Das, R.N., Kundu, S., Kim, J. and Grover, G. (2013). Mean Variance Relationships of Genome Size and GC Content, Submitted in the Journal of *Biological Sciences* on December 30, 2013, MS ID:

2. Das, R.N., Kim, J. and Park, J.S. (2014). Invariant Robust First Order  $D$ -optima designs for some lifetime distribution, Submitted in the Journal *Reliability & Quality Engineering*, on February 25, 2014.

3. Das, R.N., Kim, J. and Lee, Y. (2014). Robust First Order Rotatable Lifetime Improvement Experimental Designs, Submitted in the *Journal of Applied Statistics* on February 02, 2014.

4. Mukhopadhyay, A.C. and Das, R.N. (2014). Correlated random effect regression model analysis for a log-normally distributed variable, to be Submitted very soon.

5. Das, R.N. (2014). Autocorrelated log-normally income distribution random effect regression model analysis, to be Submitted very soon.

6. Das, R.N. (2014). Random effect regression model analysis with compound symmetry correlated errors for a log-normally distributed variable, to be Submitted very soon.

7. Das, R.N. (2014). Determinants on Body Mass Index, to be Submitted very soon.

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### Papers under Preparation:

1. Das, R.N. (2014). "Wine quality improvement through optimal level combinations of physicochemical parameters," To be submitted in the Journal Quality and Quality
2. Das, R.N. (2014). "Invariant robust second order designs for lifetime improvement experiments," To be Submitted very soon
3. Das, R.N. (2014). "Lifetime improvement robust second order designs", To be Submitted very soon
4. Das, R.N. (2014). "Lifetime improvement robust second order designs for autocorrelated errors", To be Submitted very soon

### RESEARCH ACTIVITY:

#### A. PARTICIPATED IN WORKSHOPS:

1. Participated in the "International Workshop on Regression Methodology in Statistics," February 13 - 22, 1995, at I.S.I., Kolkata.
2. Participated in the "International Workshop on Optimal Experimental Designs with Applications," December 19 -28, 1996, at Sambalpur University, Orissa, conducted by I.S.I.
3. Invited Participant in "Research Level Exposition On Optimal Designs with Reference to Growth Curve Models and Random Coefficient Regression Models", November 28-29, 1997, at I.S.I., Kolkatta.
4. Invited Participant in "National symposium on planning of experiments and analysis of data", September 30, 2002 to October 05, 2002 at Kalyani University, Kalyani.
5. Invited Participant in the "International Workshop on Experimental Designs–Theory and Applications," November 25-29, 2002, at I.S.I., Kolkatta.
6. Invited Participant in the "National Workshop on Undocumented Migration from Bangladesh to West Bengal," January 10, 2003, at I.S.I., Kolkata.

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### B. PRESENTED PAPERS IN SYMPOSIUM AND WORKSHOP:

1. Presented a paper entitled “ Second Order Rotatable Designs with Correlated Errors,” in the 2nd International Triennial Calcutta Symposium, Dept. of Statistics, Calcutta University, on December 30, 1994 to January 1, 1995.
2. Presented a paper entitled “Optimum Robust First Order Rotatable Designs,” in International Workshop on Optimal Experimental Designs with Applications, December 19 -28, 1996, at Sambalpur University, Orissa, conducted by I.S.I.
3. Presented a paper entitled “Optimum Robust First Order Rotatable Designs,” in the 3rd International Triennial Calcutta Symposium, Dept. of Statistics, Calcutta University, on December 26-28, 1997.
4. Presented a paper entitled “Robust Second Order Rotatable Designs: Part-II” in the National Symposium On Design of Experiments, Dept. of Statistics, Kalyani University, on March 5-6, 1999.
5. Presented a paper entitled “Slope Rotatability with Correlated Errors,” in the National Symposium on Statistics, Dept. of Statistics, Calcutta University, on December 31, 2000-January 1, 2001.
6. Invited Participant in “National symposium on planning of experiments and analysis of data”, to present a paper entitled- ”Construction of Robust Second Order Rotatable Designs”, on October 04-05, 2002 at Kalyani University, Kalyani.
7. Invited Participant in the “International Workshop on Optimal Experimental Designs with Applications,” to present a paper entitled- “Robust Second Order Rotatable Designs: Part-III,” on November 25-29, 2002, at I.S.I., Kolkatta.
8. Invited Participant in “9th International Conference on Statistics, Combinatorics and related areas”, to present a paper entitled-“Slope Rotatability with Correlated Errors,” on December 21 to 23, 2002, at University of Allahabad, Allahabad.
9. Invited Participant in “International Symposium on Emerging Strategies for Improving Productivity, Quality and Reliability”, to present a paper entitled-“A Role of Response Surface Methodology in Improving the Quality of a System: Part-I,” from December 12 to 14, 2003, in Kolkata, Organised by Indian Association For Productivity, Quality and Reliability (IAPQR).

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10. Presented an invited paper entitled “Robust Rotatable Designs and its Applications in Reliability Theory,” in the Department of Statistics, Seoul National University, Seoul 151-747, South Korea, on October 12, 2005.

11. Presented an invited paper in the National Conference, The Korean Statistical Society, in Korea, entitled- “A Measure of Robust Slope-rotatability for Second Order Response Surface Experimental Designs,” in Bushan, South Korea, from May 26-29, 2007.

12. Invited Participant in the “The 2007 International Association for Statistical Computing - Asian Regional Section Special Conference, Theme: Pan-Asian Collaboration between Statisticians,” to present a paper entitled-“On Exact D-optimal designs with tri-diagonal errors,” from June 7 to 8, 2007, at Press Center, Seoul, Korea.

13. Invited Participant in the “The Platinum Jubilee Celebrations– International Conference on Statistical Paradigms: Recent Advances and Reconciliations ICSPRAR-2008, at Indian Statistical Institute, Kolkata, India, January 1-4, 2008”, to present a paper entitled—“Improving resistivity of urea formaldehyde resin through joint modeling of mean and dispersion”.

14. Invited Participant in the “International Conference” in Hanoi at Press Club, Vietnam, November 30, 2008 to December 3, 2008, to present a paper entitles—“A Measure of Robust Slope-rotatability for Second Order Response Surface Designs”.

15. Participated in the 7th International Triennial Calcutta Symposium on Probability and Statistics, Dept. of Statistics, Calcutta University, on December 28–31, 2009 and presented a paper entitled-“Joint Generalized Linear Models versus Dual Response Surface approach for analyzing data from Quality Improvement Experiments” on December 30, 2009.

16. Participated in the 12th National Conference of Statistical Society and Computation, Dept. of Statistics, Visva Bharati University, Shantinekatan, February 24-26, 2010, and presented a paper entitled-“Role of Iodine to mother and Neonate: A mathematical Models based study,” on February 25, 2010.

17. Participated in the 64th Annual Conference & National Seminar on Statistics and Informatics for Massive Data Sets, Organised by Department of Agricultural Statistics, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur & Department of Statistics, University of Kalyani, December 03-05, 2010, and presented a paper entitled-“Discrepancy in fitting between log-normal and gamma models: An illustration,” on December 04, 2010.

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18. Participated in the National Seminar on Reliability: Theory & Practice, from January 28-29, 2011, Department of Statistics, Calcutta University, and presented a paper entitled-“Lifetime distribution variance: Constant or non-constant?”

19. Participated in the National Conference on Application of Statistics in Life Science and Engineering from December 10-11, 2011, Department of Agril. Extension, Agril. Economics & Agril. Statistics, Visva-Bharati, and presented two papers entitled- (i) Determinants of Diabetes Mellitus in the Pima Indian Mothers and Indian Medical Students” and (ii) Optimal Location of Process Parameters in Quality Engineering via Response Surface and GLMs: Some Illustrations”.

20. Participated in the One Day National Conference on Application of Statistics in Industry, Social and medical sciences, on March 30, 2012, and presented a paper entitled-“Dual Response Surface Methodology: Applicable Always?”

21. Invited speaker in the 8th International Triennial Calcutta Symposium on Probability and Statistics, Dept. of Statistics, Calcutta University, on December 27–30, 2012 and presented a paper entitled-“Robust First Order Designs for Lifetime Distributions”.

22. Invited speaker in the National Seminar on Recent Advances in Applied Statistics & its applications in Forestry Research, from April 15–17, 2013, at Jabalpur Tropical Forest Research Institute, and presented a paper entitled-“Invariant Robust First Order Designs for Lifetime Distributions”.

Presented a contributed paper entitled- ”Role of Mean variance Modeling in Scientific Research: An illustration in Medical Sciences”

Chaired on a Technical Session, in the same Seminar.

### **VISITING ABROAD:**

1. Visited Prof. S.H. Park, Department of Statistics, Seoul National University, Seoul, Korea, for joint research work, from October 05 to 19, 2005, and we have jointly published 10 papers, which are partially supported by a Project grant (R01-2003-000-10220-0) from the Korean Science and Engineering Foundation, and by the Second Stage Brain Korea 21 Project.

2. Invited for “Post Doctoral Position” in the Department of Statistics, Seoul National University, Seoul, Korea, from September 01, 2006 to February 28, 2007, to work with Prof. S. H. Park and, I joined as a Post-Doc Fellow (Second Stage Brain Korea 21 Project) on September 05, 2006, and worked until February 28, 2007.

3. Invited for “Post Doctoral Position” in the Department of Statistics, Seoul National University, Seoul, Korea, from March 01, 2007 to August 31, 2007, to work with Prof. Y.J.

Lee and, I joined as a Post-Doc Fellow (Second Stage Brain Korea 21 Project) on March 01, 2007 and worked until August 29, 2007, and we have jointly published 03 papers.

4. Visited Prof. J.S. Park, Department of Statistics, Chonnam National University, Korea, from October 06 to 11, 2010, and we have jointly published 02 papers.

5. Visited Dr. J. Kim, Department of Statistics, Dongguk University, Gyeongju, Korea, from October 12 to 19, 2010, and we have jointly published 02 papers.

6. Visited Prof. Y. Lee, Department of Statistics, Seoul National University, Seoul, Korea, from October 20 to 23, 2010, and we have jointly published 03 papers.

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3. Prof. Nimai K. Chandra, Department of Statistics, The University of Kalyani, Kalyani, Nadia, W.B., India, E-mail: nimai-chandra2002@yahoo.com