

## **BIO-DATA OF Prof. Dr.A.RAJARATHINAM**

Name : Dr. A. RAJARATHINAM  
Designation : Professor (Direct Recruitment)  
Department : Statistics

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Manonmaniam Sundaranar University,  
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### **ACADEMIC QUALIFICATIONS**

- Ph.D., in **Agricultural Statistics** (2006), Gujarat Agricultural University, Anand, Gujarat State, India
- M.Phil., in **Statistics** (1994), Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu, India
- PGDCA., in **Computer Science** (1988), Bharathidasan University, Tiruchy, Tamil Nadu, India
- M.Sc., in **Statistics** (1987), Annamalai University, Annamalai Nagar, Chidambaram, Tamil Nadu, India

Title of Ph.D. Thesis: *An empirical Investigation to study the trends in crop response based on parametric and nonparametric regression approaches in long-term experiment.*

Title of M.Phil. Thesis: Extreme value theory in Stochastic Process

### **EXPERIENCE (29 Years)**

#### **Positions held:**

From 27.01.2011 to till date : Professor (Direct Recruitment), Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli – 627 012, Tamil Nadu, INDIA

From 29.11.2006 to 26.11.2011: Associate Professor (CAS), Anand Agricultural University, Anand – 388 110, Gujarat, INDIA

From 10.10.1996 to 28.11.2006: Assistant Professor, Anand Agricultural University, Anand – 388 110, Gujarat, INDIA

From 13.12.1989 to 09.10.1996: Statistical Assistant, Gujarat Agricultural University, Anand – 388 110, Gujarat, INDIA

**Teaching (Under Graduate) (at Anand Agricultural University, Anand, GUJARAT)**

Sr. No.	Subject Code	Subject Name	Name of Faculty
1.	DBM-111	Industrial Statistics	Dairy Sci.*
2.	DBM-123	Computers and Application Software packages	Dairy Sci.*
3.	DBM-418	Application of Computers in Dairy Industry	Dairy Sci.*

**Teaching (Post Graduate) (at Anand Agricultural University, Anand, GUJARAT)**

Sr. No.	Subject Code	Subject Name	Name of Faculty
1.	Ag.Stat.606	Applied Multivariate Analysis	Agriculture*
2.	Ag.Stat.717	Statistical Methods for Animal Science	Agriculture*
3.	Ag.Stat.603	Design of Experiments	Agriculture*
4.	Ag.Stat.608	Statistical Methods – II	Agriculture*
5.	Ag.Stat.713	Statistical Methods for crop production – I	Agriculture*
6.	Ag.Stat.716	Statistical Methods for crop production – II	Agriculture*

**Teaching (Post Graduate) (at Manonmaniam Sundaranar University, Tirunelveli)**

Sr. No.	Subject Code	Subject Name	Name of Faculty
1.	K35V	Linear Models and Design of Experiments	Science
2.	K14V	Sample Survey	Science
3.	KEEV	Applied Regression Analysis	Science

**Research guidance****II. M.Phil (Statistics, Awarded : 14)**

Sr. No.	Name of the Candidate	Thesis Title
1.	Sitalakshmi Reg.No. (20174013529105) (July – 2018)	A study on Super Saturated Design
2.	S.Muthulakshmi (Reg.No.61005368) (July – 2017)	A study on Balanced Nearest Neighbor Design
3.	R.Rajapandi (Reg.No.61005375) (July – 2017)	A study on Balanced Binary Block Design
4.	S.Indira Reg.No. 51005341 (July – 2016)	Modeling And Forecasting Oilseed Crop Production
5.	S. Uthayakumar Reg.No. 41005448 (July – 2015)	A Study on Row Column Designs

6.	B.Manikandan Reg.No. 41005447 (July – 2015)	Some Aspects of Weighing Design
7.	R.Saranya Reg.No.31005600 (July – 2014)	Some Aspects of Bloc Design With Repeated Blocks
8.	M.Velusamy Reg.No.31005605 (July – 2014)	Modeling and Forecasting Cereals and Pulses Crop Production of Tamil Nadu State
9.	S.Mahalakshmi Reg.No.21016110 (September – 2013)	Some Aspects of Block Design
10.	Sathish Kumar S Reg.No.11015320	Regression Diagnostics – Identifying Influential Observations Using SAS
11.	A Sabiya Nazrin Banu Reg.No.11015314	A Review on Crossover Design
12.	Muthu Esakkiammal G Reg.No.11015313	Incomplete Block Designs and its Applications – A Review
13.	Gnanavalli K Reg.No.01012300	An Empirical Investigation to study the trends in cereals crop production based on non-linear and nonparametric regression models
14.	Panneerselvam R	A review of the Response Surface Methodology

### III. Ph.D. (Awarded: 11, Under Guidance: 06)

#### PhD. Degree Awarded: 11

Sr. No.	Name of the Candidate	Thesis Title	Public Viva-Voce Date
1.	P. Tamilselvan (Reg.No.:19114012151046)	Statistical Modeling of COVID-19 Cases and Deaths	10-06-2022
2.	B. Manikandan (Reg.No.: 12302)	Applied Statistical Models for Financial Time Series Data	08-02-2021
3.	S. Muthulakshmi (Reg.No.:17214012152061)	Contributions to the Construction of Supersaturated Design	27-01-2020
4.	M Sindu Reg.No.11881	Contribution to the Construction of Pairwise Balanced Design	31-01-2020
5.	Balamurugan D Reg.No.9131	Econometric Modeling For Stock Prices Time Series Data	26-10-2018
6.	Mahalakshmi S Reg.No.11363	Contributions to Constructions of Incomplete Block Designs with Repeated Blocks	18-12-2017
7.	Vetriselvi R Reg.No.9132	Modeling and Monitoring of Agricultural Production Time Series Data	27-11-2017
8.	Manoharan M Reg.No.10101	Contribution to the study on Statistical Modeling for Manpower Planning	15-09-2017

9.	Radhika A Reg.No.9130	Contributions for the construction of Variance Balance and Efficient Balance Design	10.02.2016
10.	Thirunavukkarasu M Reg.No.8496	Stochastic Modeling in Agricultural Production	16.11.2015
11.	Vinoth B Reg.No.8369	Applied Statistical Modeling for Crop Production	17.04.2014

### **Research Project Completed: 01**

File No.	Project Title	Funding Agency	Amount Sanctioned
40-251/2011 (SR)	Statistical modeling on production and productivity of Major crops	UGC	Rs.7,48,448/-

### **RESEARCH PUBLICATIONS – 61**

- [1] Adhira, S.V., **Rajarathinam, A.** (2022), Construction of Partial Diallel Crosses Plan through Trangular PBIB(2) Designs, *High Technology Letters*, Vol. 28(5), pp. 284-296.
- [2] Suba, S.S. and **Rajarathinam, A.** (2022), Panel Regression Models for Paddy (Oryza sativa) Crop Production, *YEMR*, Vol.21(1), pp.28-40.
- [3] **Rajarathinam, A.** and Tamilselvan, P. (2022), Vector Error Correction Modeling of COVID-19 Infected Cases and Death, *Journal of Statistics Applications & Probability*, Vol. 11(1), pp. 205-214
- [4] Rajarathinam, A. and Anju, J B. (2022), Panel Cointegration Modelling of COVID-19 Monthly Infected Cases and Deaths, *Applied Mathematics & Information Sciences*, Vol. 16(2), pp. 227-233.
- [5] **Rajarathinam, A.** and Suba, S.S., (2022), Panel Data Modeling for Indian Food Grain Production, *YMER*, Vol. 21(1), pp. 314-329.
- [6] Suba, S.S. and **Rajarathinam, A.** (2021), Estimating Models for Paddy (Oryza sativa) Crop Production. *Strad Research*, Vol. 8, pp. 200-212.
- [7] **Rajarathinam, A.** and Tamilselvan, P. (2021), Estimating Trends in COVID-19 Infected Cases Based on Panel Data Regression Modelling. *Journal of Applied Sciences*, Vol. 20(1), pp.31-41.
- [8] Tamilselvan, P, **Rajarathinam, A.** and Ramji, M. (2021), TRENDS IN COVID-19 INFECTED CASES AND DEATHS BASED ON PARAMETRIC AND NON-PARAMETRIC REGRESSION MODELS. *High Technology Letters*, Vol. 27 (9), pp.27-35.
- [9] Tamilselvan, P, **Rajarathinam, A** and Ramji, M.(2021), Estimating hidden models and trends in COVID-19 Infected Cases. *Strad Research*, Vol. 8(5), pp.128-133.

- [10] **Rajarathinam, A.** and Ramji. M. (2021), CANONICAL RELATIONSHIP BETWEEN DIFFERENT PRIMARY NUTRIENT CONTENTS USING R-Studio. *Strad Research*, Vol. 8, pp.274-281.
- [11] **Rajarathinam, A.** and Ramji. M. (2021), Clustering of Villages Based on Soil Parameters. *International Journal of Modern Agriculture*, Vol. 10, pp. 2625-2635.
- [12] **Rajarathinam, A.** and Balamurugan, D. (2021), Cointegration and Error Correction Modeling for BSE and NSE Stock Prices Time Series Data. *Research & Reviews: Discrete Mathematical Structures*, Vol. 4(3), pp. 30-41.
- [13] Adhira, S.V., **Rajarathinam, A.** (2021), Construction of Complete Diallel Crosses Plans. *High Technology Letters*, Vol. 27(6), pp. 737-749.
- [14] **Rajarathinam, A.** and Manikandan, B. (2021), Non-Linear and Non-parametric regression models for Stock Prices Time Series Data. *Strad Research*, Vol. 8, pp. 247-258.
- [15] Manikandan, B. and **Rajarathinam, A.** (2019), Canonical Relationship between Different Commodities Stock Price Index in India. *International Journal of Agricultural and Statistical Sciences*, Vol. 15, No. 2, pp. 829-833.
- [16] Muthu Lakshmi,S. and **Rajarathinam, A.** (2019).Construction of optimal super saturated designs. *Int.J.Agricult.Stat.Sci.* Vol.15, Issue 1,pp-355-360.
- [17] Suba, M. and **Rajarathinam, A.** (2019), A new method for construction of un-equally replicated pairwise balanced design. *International Journal of Agricultural and Statistical Sciences*, Volume 15, Issue 1, Pages 53 – 56.
- [18] Manikandan, B. and **Rajarathinam, A.** (2019), Vector Error Correction Modeling for Indian GDP, Export and Import. *International Journal of Recent Scientific Research*, Vol. 10, Issue 08(G), pp. 34473-34478.
- [19] Subha,S.S. and **Rajarathinam, A.**(2019).Modeling and Monitoring Cereals Crop production Based on Parametric and Nonparametric Regression Models. *International Journal of Scientific Research in Mathematical and Statistical Sciences*, Vol.6, Issue.4, pp.16-29.
- [20] **Rajarathinam,A.** and M.Sindu.(2019).Construction of un-equally replicated Pairwise Balanced Block Design using unreduced symmetrical BIBD. *International Journal of Scientific Research in Mathematical and Statistical Sciences*, Vol.6, Issue.3, pp.29-35.
- [21] M.Sindu and **A. Rajarathinam.** (2019).Construction of Optimal Pairwise Balanced Block Designs Based on 3<sup>n</sup> Symmetrical Factorial Design. *International Journal of Scientific Research in Mathematical and Statistical Sciences*, Vol.6, Issue.3, pp.58-62, 2019.
- [22] Manikandan B. and **Rajarathinam A.**.(2019).Parametric and Nonparametric Regression Modeling for Oil Sectors Stock Prices Time Series Data. *International Journal of Scientific Research in Mathematical and Statistical Sciences*, Vol.6, Issue.3, pp.63-69.

- [23] **Rajarathinam A.**, Balamurugan D. and Manikandan B.,(2019).Canonical Relationship between Indian Stock Price Index and Exchange Rates. *Research & Reviews:Journal of Statistics.*, 8(1), pp.12-16
- [24] **Rajarathinam, A.** and Sindu, M.(2019).Construction of Un-Equally Replicated Optimal Pairwise Balanced Design. *International Journal of Statistics and Economics.* Vol.20., No.1, pp.111-123.
- [25] Khokhar,A.N. and **Rajarathinam, A.** (2018). Canonical Correlation Modeling for egg production traits and body weight, egg weight and age at sexual maturity. *Int.J.Agrcult.Stat.Sci.,Vol.14,No.1.*, pp.405-408.
- [26] Muthu Lakshmi,S., **Rajarathinam, A** and Ghosh, D.K. (2018). Construction of Supersaturated Design based on Fractional Factorial Design. *Int.J.Agrcult.Stat.Sci.,Vol.14, Supplement 1, pp.387-390.*
- [27] Thirunavukkarasu, M.J. and **Rajarathinam, A.** (2018). Stochastic modeling for milk production. *Research Journal of Animal Husbandry and Dairy Science.* Vol.9.No.2., pp.26-35.
- [28] Balamurugan, D., Manikandan,B. and **Rajarathinam, A.**(2018).Econometric Modeling for Oil Sectors Stock prices Time Series Data. *Research & Reviews: Journal of Statistics*, Vol.7. No.2, pp.27-34.
- [29] **Rajarathinam, A** and Balamurugan, D., (2018)., Econometric Modeling For Indian Stock prices and Exchange rates. *Research Journal of Economics & Business Studies*, Vol.7. No.5. pp.16-24.
- [30] **Rajarathinam, A.** and Vetriselvi, R.,(2017)., Modeling and Monitoring of paddy production in Southern Districts of Tamil Nadu. *Int.J.Agrcult.Stat.Sci.*, Vol. 13(1), pp.181-190.
- [31] **Rajarathinam, A.** and Vetriselvi, R., (2017), Modeling Cereals Crop Production Based on Parametric and Nonparametric Models. *Int.J.Agrcult.Stat.Sci.*, Vol. 13(1), pp.17-28.
- [32] Vetriselvi, R., and **Rajarathinam, A.**, (2017), Vector of Auto-Regressive Modeling for Agricultural Crop Production. *Research & Reviews: Discrete Mathematical Structures*, Vol.4. No.3. pp.30-41.
- [33] **Rajarathinam, A.**, Mahalakshmi, S., and Ghosh, D.K., (2017), Construction of Partially efficiency Balanced Block Designs with and without Repeated Blocks. *International Journal of Current Advanced Research*, Vol. 6(6), pp. 4463-4471.
- [34] **Rajarathinam, A.**, Radhika, A. and Mahalakshmi, S.(2017).Construction of binary and ternary variance balanced block designs. *International Journal of Statistics and Economics.* Vol. 18, No.3, pp.72-81.

- [35] **Rajarathinam, A.**, Radhika, A., and Gujarathi, C.C., (2016)., Construction of Variance balanced block design based on fractional factorials. *Far East Journal of Theoretical Statistics*, Vol.52, No.1, pp.17-33.
- [36] **Rajarathinam, A.**, and Manoharan, M., (2016)., Stochastic Model for Estimating the expected time to recruitment based on Lindly Distribution. *Journal of Reliability and Statistical Studies*. Vol.9, No.2, pp. 1-10.
- [37] **Rajarathinam, A.**, Mahalakshmi, S., and Ghosh, D.K., (2016)., Construction of Pairwise Balanced design.. *Journal of Modern Applied Statistical Methods*, Vol. 15(1), pp. 193-205.
- [38] **Rajarathinam, A.**, Mahalakshmi, S., and Ghosh, D.K., (2016)., Construction of Efficiency Balanced Design Using Factorial Design. *Journal of Modern Applied Statistical Methods*, Vol.15, No.1., pp.239 – 254.
- [39] **Rajarathinam, A.**, Mahalakshmi, S., and Ghosh, D.K., (2016)., Construction of Efficiency Balanced Design With Repeated Blocks. *Int.J.Agrcult.Stat.Sci.*, Vol.12, No.2., pp.301-306.
- [40] Parmar, R.S., **Rajarathinam,A.**, Patel, H.K. and Patel, K.V., (2016). Statistical Modeling on Area, Production and Productivity of Cotton (*Gossypium* spp.) Crop for Ahmedabad Region of Gujarat State. *Journal of Pure and Applied Microbiology.*, Vol.10, No.1, pp. 751 – 759.
- [41] Manoharan, M. and **Rajarathinam, A.**,(2016)., A Stochastic model for estimation of expected time to elapsed time of recruitment using two grade manpower systems. *Int.J.Agrcult.Stat.Sci.*, Vol.12, No.1. pp.21 – 26.
- [42] **Rajarathinam, A.**,Vetriselvi, R., Balamurugan, D., (2016)., Unobserved Components model for forecasting Wheat Production. *Int.J.Agrcult.Stat.Sci.*, Vol.12, No.1., pp.161-167.
- [43] Vinoth, B., **Rajarathinam,A** and Manju Bargavi., (2016). Nonlinear Regression and Artificial Neural Network Based Model for Forecasting Paddy (*Oryza Sativa*) Production in Tamil Nadu. *IOSR Journal of Mobile Computing & Application.*, Vol.(3), No.3,pp. 01-06.
- [44] **Rajarathinam, A.** (2015), Construction of Binary Efficiency Balanced Block Designs with and without repeated Blocks. International Conference on Agricultural Statistics 2015 “*Advancing Agricultural Through Statistics*”, Pages.10.
- [45] **Rajarathinam, A.**, Radhika, A., and Ghosh, D.K., (2014)., Variance Balanced Design and its optimality. *Int.J.Agrcult.Stat.Sci.*, Vol.10, No.1.,pp.43-48.
- [46] Thirunavukkarasu, M. and **Rajarathinam, A.**, (2014). Stochastic Modeling for forecasting of India’s Milled Rice Production. *International Journal of Scientific Research*. Vol.3. No.1, pp. 7 – 10.

- [47] Vinoth, B. and **Rajarathinam, A.**, (2014)., Outlier Detection in Simple Linear Regression Models and Robut Regression – A case Study on Wheat Production Data. *International Journal of Scientific Research*. Vol.3. No.2., pp.11 – 16.
- [48] **Rajarathinam, A** and Vinoth B., (2013). Computations of Jump Points in Tobacco (Nicotiana Tabacum) Crop Production. *International Journal of Probability and Statistics*. Vol.2. No.2., pp.13-20.
- [49] **Rajarathinam, A** and Thriunavukkarasu, M., (2013). Fuzzy Time Series Modeling for Paddy (Oryza sativa L.) Crop Production. *American Journal of Mathematics and Statistics*. Vol.3, No.5., pp. 268-280.
- [50] **Rajarathinam, A** and Thriunavukkarasu, M., (2013). Structural Changes in Sugarcane Production. *International Journal of Statistics and Systems*. Vol.3, No.5, pp.449-456.
- [51] **Rajarathinam, A.**, and Vinoth B., (2012). Trends, Growth Rate and Jump Point Analyses for the area, production and productivity of Mustard (Brassica juncea L. Czern.) crops. *Journal of Statistics and Applications*. Vol.6.No.3-4., pp.158-173.
- [52] **Rajarathinam, A.**, (2011). An Empirical Investigation to study the Trends in Cerials Crop Production Based on Parametric and Nonparametric Regression Models. *International Conference on Advances in Probability and Statistics – theory and Applications*.
- [53] **Rajarathinam, A** and Parmar R.S., (2011). Application of parametric and nonparametric regression models for area, production and productivity trends of castor (Ricinus Communis L.) crop. *Asian J. of Applied Sci*. Vol.4. No.1., pp. 42-52.
- [54] **Rajarathinam, A.**, Khokhar, A.N., Vaishnav, P.R., and Dixit, S.K. (2011). Statistical modeling to group villages based on soil parameters. *J.Ind.Soc.Agril.Statist*. Vol. 65, No.3, pp.339-346.
- [55] **Rajarathinam, A.**, and Senthamarai Kannan, K. (2011). Statistical Modeling on area, production and Productivity trends of Mustard (Brassica juncea L. Czern.) crop. *Proceeding of the 7<sup>th</sup> IMT-GT International Conference on Mathematics, Statistics and its Applications*, July 21 – 23, pp.337-345.
- [56] Parmar, R.S., Vaishnav, P.R., Patel, J.S. and **Rajarathinam, A.**, (2010). Statistical relationship between rainfall and groundnut productivity in Gujarat. *Agrometeorological Services for Farmers*. pp. 117-125.
- [57] **Rajarathinam, A. N. Khokhar and S. K. Dixit** (2010). Statistical Modeling on Grouping Vilages of Kadana Taluka based on Soil Parameters. *Int.J.Agricult.Stat.Sci.*, Vol.6., No.2, pp.,423-430
- [58] **Rajarathinam, A.** Parmar, R.S. and Vaishnav P.R., (2010). Estimating models for area, production and productivity trends of tobacco (Nicotiana tabacum) crop for Anand region of Gujarat state, India. *J.Applied Sci.*, Vol.10, No.20, pp. 2419-2425.

- [59] Khokhar, A. N., **Rajarathinam, A.**, Dixit, S.K., Parmar, D.J. and Vaishnav, P.R., (2009). Clustering of villages based on soil parameter. *International Journal of Tropical Agriculture*. Vol.27, No.1-2., pp.21-245.
- [60] Bhagyashree, Dhekale and **Rajarathinam, A.**, (2009). Statistical Modeling on area, production and productivity trends of Bajra crop grown in Gujarat state. *International Journal of Tropical Agriculture*. Vol.27, No.1-2, pp. 291-296.
- [61] **Rajarathinam, A.**, and Dixit S.K., (2007). Yield Dynamics of wheat (*Triticum aestivum* L.) crop in Paddy-Wheat-Green Gram cropping sequence in long-term experiment. *International Journal of Tropical Agriculture*, Vol.25. No.3., pp.625-635.
- [62] **Rajarathinam, A.**, Dixit, S.K., and Vaishnav, P.R., (2007). Fitting of Sorghum (*Sorghum bicolor*) yield trends in long-term fertilizer experiment. *Crop Res.* Vol.34 (No.1,2 & 3), pp.57-63.
- [63] **Rajarathinam, A.**, and Dixit S.K., (2007). Fitting of groundnut yield trends in long-term fertilizer experiment – A time-series model approach. *Crop Res.* Vol.34. (No.1, 2, & 3), pp.92-96.
- [64] Bhagyashree, Dhekale and **Rajarathinam A.**, (2007). Statistical Modeling of Green Gram (*Phaseolus aureus*) yield trend in Paddy-Wheat-Green Gram cropping sequence. *International Journal of Tropical Agriculture*, Vol.25, No.3, pp.427-435.
- [65] **Rajarathinam, A.**, Shekh, M.A., Govindaraj, G. and Dixit, S.K., (2007). Nutrient Dynamics and yield of Groundnut (*Arachis Hypogea*) in Groundnut-Wheat- fodder Sorghum cropping sequence. *International Journal of Tropical Agriculture*. Vol.25, No.4., pp.1027-1035.
- [66] **Rajarathinam, A.**, Dixit, S.K., and Vaishnav, P.R., (2007). Application of nonparametric regression in fitting trend in long-term fertilizer experiment. *Int.J.Agricult.Stat.Sci.*, Vol.3., No.1, pp.17-24.

### **Invited Talk (07)**

- [1] Delivered an invited talk on “**Construction of Partially Efficiency Balanced Block Design**” in the 25<sup>th</sup> International Conference of Forum for Inter disciplinary Mathematics (FIM) on “Interdisciplinary Mathematical, Statistical and Computational Techniques (IMSCT) – 2016”, held during 22 – 24<sup>th</sup>, December,2016 organised by the Department Mathematics, Statistics and Computer Science, Manipal University, Jaipur, Rajasthan.
- [2] Delivered an invited talk on “**Construction of Binary and Ternary Variance Balanced Block Design**” in the 18<sup>th</sup> Annual National Conference of Society of Statistics, Computer and Applications on Significance of Statistics as Interdisciplinary Sciences, organized by the Department of Statistics, University of Jammu, Jammu, J & K, India during February 18 – 20, 2016.
- [3] Delivered a talk in One day Workshop on “**STATISTICS AND Design Of Experiments**” organized by the Department of Mechanical Engineering, Government College of Engineering, Tirunelveli, Tamil Nadu on 16-10-2015.

- [4] Delivered an invited talk on “**New construction methods for Variance and Efficiency balanced block design**” in the 23<sup>rd</sup> International Conference of Forum for Inter disciplinary Mathematics (FIM) on “Interdisciplinary Mathematical, Statistical and Computational Techniques (IMSCT) – 2014”, held during 18 – 20 December, 2014 at the Department Mathematical and Computational Sciences, National Institute of Technology, Surathkal, Karnataka.
- [5] Delivered a lecture on “**Incomplete block designs and its construction**” to the participants of the Refresher Course in Statistics on 26<sup>th</sup> November, 2014 organized by the UGC – Academic staff college, Bharathiar University, Coimbatore.
- [6] Attended and delivered invited talk on “**Construction of Pairwise Balanced Design**” in the National Conference on Recent Developments in Statistical Models and Methods – 2014 (RDSMM-2014) organized by the Department of Statistics, Government Arts College, Coimbatore – 641 018 during August 27 – 28, 2014.
- [7] Attended and delivered invited talk on “**Variance Balance Design and its Optimality**” in the National Conference on Statistics for twenty-first century – 2014 (NCSTC – 2014), in connection with the International Year of Statistics Celebrations held in the department of Statistics, University of Kerela, Trivandrum during 20 – 22<sup>nd</sup> March, 2014.

**Research papers presented at various Seminar, Symposia, and Conference etc.**

- [1] Participated and presented a research paper entitled “**Stochastic Modeling for Crop Production**” in the National Conference on “Recent Advances in Statistics and Applications” organized by the School of Studies in Statistics, Pt.Ravishankar Shukla University, Raipur (C.G.) during 15 – 17th November, 2013 .
- [2] Attended Workshop on “**Statistical Analysis of Time Series Data with Applications**” organised by the Department of Statistics, Cochin University of Science and technology, Cochin – 682022, Kerala during 14th -16th , January, 2013.
- [3] Participated a seminar on “**National Seminar on Frontiers in Applied Statistics and Computer Applications – FASCA – 07**” organized by Department of Statistics, Bharathiar University, Coimbatore, Tamil Nadu during 29-30th January, 2007. Presented a paper on “Fitting of wheat yield trends and its characteristics in long-term fertilizer experiment”.
- [4] Presented paper on “**Productivity of purebred Holstein Friesian cows and influenced by climatic conditions**” in National Symposium on “Recent Trends in Policy initiatives and technological interventions for rural prosperity in small holder livestock production system” during 20-22nd June,2007 held at College of Veterinary Science, Tirupathi, Andhra Pradesh.
- [5] Participated a UGC sponsored national seminar on “**Statistical models and methods for data analysis (NSSMMDA-2006) – Recent Developments**” organised by Department of Statistics, Annamalai University, Chidambaram, Tamil Nadu during 8-9th March, 2006.

- [6] Participated in a UGC sponsored national seminar on “**Recent Developments in Data Collection and Analysis**” organised by Department of Statistics, Sardar Patel University, Vallabh Vidhyanagar, Gujarat during 29-31st, January, 2004.

#### **International Conference Attended: 04**

- [1] Attended International Conference on Agricultural Statistics 2015 (CAS 2015) at University of Putra Malaysia, Bintulu Sarawak Campus, Malaysia during 6-8<sup>th</sup> October, 2015 and presented paper on “**Construction of Binary Efficiency Balanced Block Designs with and without repeated Blocks**” .
- [2] Participated and presented a research paper entitled “**Construction of some incomplete block designs based on Hadamard matrices**” in the Seventh Conference on research and education in mathematics (ICREM7) organized by the Institute of Mathematical Research, Universiti Putra Malaysia on 25 – 27<sup>th</sup> August, 2015.
- [3] Attended the 7<sup>th</sup> International conference on Mathematics, Statistics and its applications (ICMSA-2011) organized by National Institute of Development Administration in **Bangkok, Thailand** during 21-23<sup>rd</sup> July, 2011 and **orally presented** paper entitled “**Statistical modeling on area, production and productivity trends of Mustard crop**”.
- [4] Attended International conference on “Advances in Probability and Statistics – Theory and Applications : A celebration of N.Balakrishnan’s 30 years of contributions to Statistics” organized by Department of Statistics, **The Chinese University of Hong Kong, Hong Kong, China during 28-31<sup>st</sup> December, 2011**. Orally presented research paper entitled “**An Empirical Investigation to Study the Trends in Cereals Crop Production Based on Parametric and Nonparametric Regression Models**”.

#### **Special Courses attended : 06**

- [1] Attended ICAR sponsored short course on “*Nonparametric Approaches in crop modeling*” organized by Central Plantation Crops Research Institute, Kasaragod – 627 124, Kerala, during 20-29<sup>th</sup> November, 2012.
- [2] Attended a workshop-cum-training programme on “*Advances in Data Analytical Techniques*” during 8-28<sup>th</sup> February, 2007 (21 Days) organised by Indian Agricultural Statistics Research Institute, New Delhi, India.
- [3] Attended a training programme on “*Data-Driven Web solution using open source Technology*” during 17<sup>th</sup> September to 7<sup>th</sup> October, 2005 (21 days) organised by Indian Agricultural Research Institute, Pusa, New Delhi under the aegis of center of Advanced Studies in Agricultural Statistics and Computer Applications sponsored by Indian Council of Agricultural Research.
- [4] Participated in Winter School on “*Computational Statistics in Agricultural Sciences*” during 8-28<sup>th</sup> November, 2002 (21 days) organised by Indian Council of Agricultural Research, at the Department of Agricultural Statistics, Bidhan Chandra, Krishi Viswavidyalaya, Mohanpur, West Bengal , India.

- [5] Attended Refresher course on “*Faculty Development Programme in Research Management*” held from 07-11-2001 to 04-12-2001 (28 Days) at Academy of Agricultural Research and Education Management, CCS Haryana Agricultural University, Hisar, India.
- [6] Attended Refresher course on “*Faculty Development Programme in Educational Technology*” held from 01-06-2001 to 28-06-2001 (28 Days) at Academy of Agricultural Research and Education Management, CCS Haryana Agricultural University, Hisar, India.

**Books/Monographs Published: 03**

Sr. No.	Title	Name of Publisher	ISBN
1.	Trends in crop Response in Long-term Field Experiment.	LAMBERT Academic Publishing GmbH & Co.KG	978-3-8465-2933-1
2.	Applied Multivariate techniques on Soil Parameters.	LAMBERT Academic Publishing GmbH & Co.KG	978-3-659-13328-2 (November – 2012)
3.	Trends and Growth Rates on Agricultural Production.	LAMBERT Academic Publishing GmbH & Co.KG	978-3-659-31014-0 (December – 2012)

**No. of Workshop /Orientation Programme organized :**

**Workshop = 03      Orientation Programme: 01**

**As a Member: Life Member of**

- i. Indian Society of Agricultural Statistics, IASRI, NEW DELHI
- ii. Gujarat Statistical Association, Gujarat University, Ahmedabad, GUJARAT
- iii. Association of Agro-Meteorologist, Anand Agricultural University, Anand, GUJARAT

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