

**SARDAR PATEL UNIVERSITY**  
**VALLABH VIDYANAGAR**

**Personal Details**

Employment No. 730

Name Ashok Ramdas Rao Shanubhogue

Gender Male

Date of Birth 20<sup>th</sup> July, 1957

Nationlity Indian



Occupation Professor and Head  
Address(O) Department of Statistics,  
Sardar Patel University,  
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## Qualifications

Degree (Name of the Degree)	Name of University	the Year of Award	Subjects	Percentage of marks obtained	Class Division Awarded
Bachelor's: B.Sc	University Mysore	of 1979	Physics Mathematics Statistics	68.33%	First Class
Master's: M.Sc	University Mysore	of 1981	Statistics	65.69%	First Class
M.Phil	University Poona	of 1985	Statistics	-----	'A' Grade
Ph.D	University Poona	of 1987	Statistics	-----	-----
Post Doctoral	-----	-----	-----	-----	-----
Other	-----	-----	-----	-----	-----

(8) Details of Posts held in this University

Sr.No.	Name of the Institution	Designation	Period with date		No. of Years	Months
			From	To		
1	Department of Statistics, Sardar Patel University	Reader	17 <sup>th</sup> Sept, 1990	16 Sept, 1998	8	-
2	Department of Statistics, Sardar Patel University	Professor	17September 1998.	Till to date	18	-

(9)Details of Experience:( Teaching, Laboratory, Industry etc.)

Sr.No.	Name of the Institute	Designation	Period with Date		No of years and Months
			From	To	
1	Department of Statistics Shri Poorna Prajna College Udupi	Lecturer	1 <sup>st</sup> July, 1981	31 <sup>st</sup> August , 1981	2 Months
2	Department of Statistics Jnana Bharathi, Bangalore University, Bangalore.	Assistant Professor	5 <sup>th</sup> Dec. 1981	7 <sup>th</sup> Nov.1982	11Months
3	Department of Statistics University of Poona	Junior Research Fellow	9 <sup>th</sup> Nov, 1982	19 <sup>th</sup> June, 1986	3Yrs, 7 Months.
4	Department of Statistics University of Poona	Lecturer	20 <sup>th</sup> June, 1986	16 <sup>th</sup> Sep, 1990	4 Yrs, 3 Months
5	Department of Statistics Sardar Patel University	Reader	17Sept, 1990	16 Sept, 1998	8 Yrs
6	Department of Statistics Sardar Patel University	Professor	17Sept, 1998	Till to date	18 Yrs

(10)Teaching /Research Experience:

	From	To	Year	Months
P.G	5 <sup>th</sup> Dec, 1981	Till to date	34	10
M.Ph il	20 <sup>th</sup> June 1986	Till to date	30	4
Ph.D	17 <sup>th</sup> June 1990	Till to date	24	4

## Publications of Ashok Shanubhogue 1985-2016

1. **Shanubhogue, A.** and Gore, A.P. (1985): Nonparametric test for several sample location problem. *Commun.Statist.-Theory.Meth.*, 14(5), 1137-1150.
2. Gore, A.P. and **Shanubhogue, A.** (1986): Test of homogeneity against scale alternative using sub-sample extrema. *Australian Jour.Stat.*14, 252-258.
3. Gangully, S.S., Nimbalkar, U.N., **Shanubhogue, A.** and Malik, A.K (1987): Logistic regression approach in modeling risk factors of malnutrition among pre-school children, *Indian.J.Med.Res.*,86,112-118.
4. **Shanubhogue, A.** and Gore,A.P.(1987):Using logistic regression in ecology.*Current Science*,56(18),933-936.
5. **Shanubhogue, A.** (1988): Distribution-free tests for homogeneity against scale.*Metrika*,55,109-119.
6. Gore,A.P. and **Shanubhogue, A.**(1988): A note on rank analysis of split plot experiments.*Journal.Ind.Soc.Ag.Statistics*.11(3),178-184.
7. Gadakar,R., Vinitha,C.,**Shanubhogue, A.** and Gore,A.P.(1988):Pre-imaginal biasing of caste in primitively eusocial insects.*Proc.R.Soc.London.B*.233, 175-189.
8. Gangully, S.S., **Shanubhogue, A.**, Nimbalkar, U.N. and Bhattacharya, S.N. (1989): A case control study of sexually transmitted diseases based on logistic regression. *Statistics in Medicine (Editor: J Krishnan)*, 106-116.
9. **Shanubhogue, A.** (1990): A class of distribution free tests for two way layout.*Commun.Statist-Theor.Meth.*m19 (7), 2517-2526.
10. **Shanubhogue, A.** Rajarshi, M. B., Gore, A. P. and Sitaramam,V.(1992):Statistical testing of equality of two break points in experimental data. *Journal of Biochemical and Biophysical Methods.*,25,95-112.
11. **Shanubhogue, A.** and Jani, P.N.(1993):Consequence of departure from independence in two component systems when component life times depend through FGM model.*Commun.Statist.-Theor.Meth*,22(10),2969-2981.
12. Muralidharan, K., **Shanubhogue, A.** and Jani, P.N. (1994). A revisit to Hollandars test.*Prajna.Vol4.Journal of Sardar Patel University*, 89-91.
13. Muralidharan, K., **Shanubhogue, A.** and Jani, P.N. (1995): A test based on the conditional likelihood for the shape parameter in parameter weibull distribution. *Prajna, Vol5, Journal of Sardar Patel University*, 85-87.

14. Muralidharan K, Jani, P.N. and **Shanubhogue, A.** (1996). Conditional test procedure for the shape parameter in two parameter gamma distribution. *IAPQR TRANSACTIONS, Vol 21, No.1, 55-62.*
15. Dass, B.B. and **Shanubhogue, A.** (1996). Price adjusting sampling plan by attributes. *IAPQR TRANSACTIONS, Vol 21, No.1, 55-62.*
16. **Shanubhogue, A.,** Jani, P.N. and Muralidharan, K (1996). Conditional test for normal mean and variance using quadratic form. *Prajna, Vol6, Journal of Sardar Patel University, 101-104.*
17. Harish Kumar and **Shanubhogue, A.** (1996). Quality of work life-An empirical approach. *MANPOWER, Vol.XXXII, No.3, 17-24.*
18. **Shanubhogue, A.,** Jani, P.N. and Muralidharan, K (1996). Conditional test for Weibull DFR/IFR alternative based on censored sample. *Prajna, Vol6, Journal of Sardar Patel University, 101-104.*
19. Jani, P.N., **Shanubhogue, A.** and Muralidharan, K. (1997). Some test for Poisson process and their powers with respect to trend in the intensity. *Commun. Statist.-Theor.Meth. Vol.26 (11). 2671-2688.*
20. Jani, P.N., **Shanubhogue, A.** and Muralidharan, K. (1998). A conditional test for gamma DFR. *Commun.Statist.-Theor.Meth. Vol.27( 10), 2535-2546*
21. **Shanubhogue, A.** and Dass, B.B (1998). An optimal three class pricing plan. *IAPQR TRANSACTIONS, Vol. 23, No1, 37-45.*
22. Muralidharan, K., Jani, P.N. and **Shanubhogue, A.** (1999): Conditional test procedure for the shape parameter in two parameter weibull distribution with scale parameter as a nuisance parameter. *IJMOS, Vol15, No.1, 69-76.*
23. Chinchole, S., Rajapurkar, M., Kharshikar, A. and **Shanubhogue, A.** (1999). Effect of Hepatitis B surface antigen positivity on patient survival in renal transplantation. *Biostatistics (Editors: Richard, R and Muthurathnam, S), 42-46.*
24. Chinchole, S. **Shanubhogue, A.** Kharshikar, A. Rajapurkar, M. (1999). Effect of Donor Age on the outcome of Kidney Transplant. *Statistical Methods and application in Biology and Medicine. (Editor: D.K. Subbakrishna and V.G. Kaliaperumal), 237-243.*
25. Shinde R.L. and **Shanubhogue, A.** (1999). Negative binomial distribution through a random sum of Markov dependent binomial variables. *Statistical Methods 1(1), 78-82*
26. Roy, B.B. and **Shanubhogue, A.** (1999): Price adjusting sampling plans by variables for a class of symmetric thick tailed distributions. *IAPQR TRANSACTIONS, Vol. 24, No2, 115-121.*
27. Jani, P.N., **Shanubhogue, A.** and Muralidharan, K. (2000). A method of constructing test based on the quadratic form. *Metron, LVIII n.1-2, 139-151.*

28. Shinde, R.L. and **Shanubhogue, A.** (2000): Estimation of parameters and the mean life of a mixed failure time distribution. *Commun. Statist. Theoer. Meth. Vol. 29, (10)*.
29. P.N.Jani, **Shanubhogue, A.** and Muralidharan, K. (2001). Conditional test for the shape parameter in the mixture of a degenerate and a Weibull distribution. *Journal of Applied Statistics, Vol. 10, No. 4, 299-313*.
30. Roy, B.B and **Shanubhogue, A.**(2001): Price adjusting sampling plans under single specification scheme for exponentially distributed variable, *Stat.Methods, Vol.3, No2, 125-138*.
31. **Shanubhogue, A.**, Jani, P.N. and Muralidharan, K. (2002). A conditional test for the scale parameter in the mixture of a degenerate and exponential distribution *Assam Statistical Review, 15(2), 47-56*.
32. Muralidharan, K. and **Shanubhogue, A.** (2003). A tet for Exponentiality against IFR alternatives based on stochastic orderings of random variables ., *IAPQR Transactions on Reliability, 28(2), 109-116*.
33. Roy, B.B. and **Shanubhogue, A** ( 2003) Price adjusting sampling plans by attributes: Three-class three-decision criterion. *Prajna, Vol12, 135-142*.
34. Muralidharan, K, and **Shanubhogue, A.** (2004). A conditional test for exponentiality against Weibull DFR alternatives based on a censored samples: *J. Iranian Statistical Society, a(1), 69-81*.
35. Shankar, H. Trivedi, A. Vanikar, P. Shah, P. Modi, V. Shah, C. Haritha, J. Prajapathi, A. Shanubhogue(2007):Immortalizing Renal Allografts With Stem Cell Transplantation Using Low Dose Irradiation as an Adjuvant to Non-myeloablative Conditioning. *International Journal of Radiation Oncology,BiologyPhysics, Volume 69, Issue 3, Pages S120-S121*
36. **V. Shankar, C. Haritha, H. J. Prajapati, R. Bhatt, J. Parmar and A. Shanubhogue(2007)** :3-D irradiated lung and heart volume predictions from 2-D datasets: Value of CT-based treatment planning in postmastectomy tangential beam radiation therapy *Journal of Clinical Oncology Vol 25, No 18S*.
37. U. Kharod, V. Sha Shankar, B. Shrivastava, S. Sanwatsarkar, H. Kamat, A. Patel, M. Chaudhari, G. Duggal, U. Parikh, **A. Shanubhogue(2007)**, Pain Management in Patients Undergoing Interstitial Pelvic Brachytherapy: A Quest for Better Analgesia!. *International Journal of Radiation OncologyBiologyPhysics, Volume 69, Issue 3, Pages S406-S406*
38. V.Shankar, H. Trivedi, A. Vanikar, P. Shah, P. Modi, V. Shah, C. Haritha, J. Prajapathi, **A.Shanubhogue(2007)**: Immortalizing Renal Allografts With Stem Cell Transplantation Using Low Dose Irradiation as an Adjuvant to Non-myeloablative

- Conditioning. *International Journal of Radiation Oncology, Biology Physics*, Volume 69, Issue 3, Pages S120-S121
39. V. Shankar, C. Haritha, G. Senthil, A. Shanubhogue, R. Bhatt, P. Shah, J. Prajapathi, M. Patel (2008) Implant Motion during High Dose Rate Interstitial Brachytherapy in Cervical Cancer - Does it Really Matter? *International Journal of Radiation Oncology Biology Physics*, Volume 72, Issue 1, Pages S363-S363
  40. C. Haritha, V. Shankar, J. Prajapathi, G. Senthil, P. Shah, R. Bhatt, M. Patel, A. Shanubhogue (2008) Volumetric Modeling of Irradiated Heart and Lung Volumes in Postmastectomy Tangential Beam Radiation Therapy *International Journal of Radiation Oncology Biology Physics*, Volume 72, Issue 1, Pages S477-S478
  41. Riyadh R. Al-Mosawi and A. Shanubhogue (2009). "Estimation after selection in the modified power series distributions under Stein's loss function." *J. of probability and Statistical Science*. 7(1) , 19-27.
  42. Riyadh R. Al-Mosawi and A. Shanubhogue (2009). "Inadmissibility results for the selected truncated modified power series distribution." *Far East J. of Theoretical Statistics*. 28(1), 21-34.
  43. A. Shanubhogue and Riyadh R. Al-Mosawi. (2009). Estimation after selection in the power series distributions" accepted *PRAJNA*, 17, 191-197.
  44. Riyadh R. Al-Mosawi and A. Shanubhogue. (2009) "Estimating the parameter of the selected population in the power series distributions." *VNSGU Journal of Science and Technology*, Vol 1( 1), 104-116
  45. A. Shanubhogue and Riyadh R. Al-Mosawi. (2009) " Estimation of the Functions of Parameters of the Selected Subset Under Stein Loss Function, *JASS*, 17(4), pp. 593-607.
  46. Singh, A.K. and Shanubhogue, A. (2009). Estimation problems in two-piece generalized Laplace distribution. *VNSGU Journal of Science and Technology*, Vol 1( 1), 95-103.
  47. A. Shanubhogue and D.P. Raykundaliya (2009) A statistical study of ATM of a nationalized bank branch. *Prajna*, Vol. 17, 198-202.
  48. A. Shanubhogue and Riyadh R. Al-Mosawi. (2010). "On estimation following subset selection from truncated Poisson distributions under Stein's loss function." *REVSTAT* Vol 8(1), 1-20
  49. Riyadh R. Al-Mosawi and A. Shanubhogue. (2010) Estimating After Selection in the Discrete Exponential Family under k-Normalized Squared Error Loss Function, *Applied Mathematical Sciences*, Vol. 4, no. 59, 2905 – 2915.

50. Shanubhogue A .and Bhatt M.V. (2010) “Business opportunities for Insurance Sector: An empirical study among teachers of S.P. University”. *Ind.Jour.Marketing*, VolXL, No.5, 52-,61.
51. Shanubhogue Ashok and Jain N.R. (2010) Minimum variance unbiased estimation in exponential distribution using progressively type II censored data with binomial removals, *Advances and Applications in Statistics*. *Advances and Applications in Statistics* Vol 18(1), 27 - 39 .
52. Al-Mosawi, R. R., Vellisamy, P. and Shanubhogue, A. (2011). Risk-unbised estimation of the average worth of the selected subset of Poisson populations. To appear in Vol 49, *Journal of Indian Statistical Association*, 49(1), 55-72
53. Al-Mosawi, Riyadh R. , Shanubhogue, A. and Vellaisamy, P.(2011) Average worth estimation of the selected subset of Poisson populations, *Statistics*, 45(3), 1-19
54. Jain, N.R. and Shanubhogue Ashok(2011) ) Non-Bayesian And Bayesian Estimations for Weibull Distribution Based on Progressively Type II Censored Data with Binomial Removals. *Far East Journal of Theoretical Statistics*, Vol.34(2), 109-122
55. **Shanubhogue, Ashok** and Bhatt, M.V. (2011) Nonparametric Two Sample Test for Dispersion Differences Based on Placements. *Far East Journal of Theoretical Statistics*, Vol **35(1)**, 65-75.
56. Raykundaliya, D.P. and Shanubhogue, A.(2011) a case study of hybrid microcircuit assembly process using taguchi design method and response surface method. *PRAJNA*, Vol 19, pp 90-92
57. Al-Mosawi, Riyadh R. , **Shanubhogue, A.** and Vellaisamy, P.(2012) 'Average worth estimation of the selected subset of Poisson populations', *Statistics*, Vol. 46, No. 6, December 2012, 813–831
58. Shanubhogue, Ashok and Jain N. R(2012) Minimum Variance Unbiased Estimation in the Rayleigh Distribution Under Progressive Type II Censored Data with Binomial Removals. *InterStat*, *InterStat* , 1-17
59. Shanubhogue, Ashok and Jain N. R(2012) Minimum variance unbiased estimation in the Pareto distribution of first kind under progressive Type II censored data with binomial removals. *ProbStat Forum* 5, pp 21-31.

60. Shanubhogue Ashok and Jiheel, A.K.(2012) Bayes pre-test estimation of mean of exponential distribution under asymmetric loss function using progressive type II censored sample .*Advances and Applications in Statistics*, 27(2), pp 109-130.
61. Shanubhogue,Ashok and Jiheel,A.(2012)Bayes shrinkage estimation of the shape parameter of pareto distribution first kind using progressive type II censored sample. *Far East J. Theor. Stat.*, 40(1), pp 45-57
62. Shanubhogue, A., Jain N.R. (2013) .Minimum variance unbiased estimation in the Gompertz distribution under progressive Type-II censored data with binomial removals. *ISRN Probability and Statistics*, Article ID 237940, 7 pages.
63. Shanubhogue,Ashok and Jiheel,A.(2013) Bayes pre-test estimation of scale parameter of Weibull distribution under different loss functions using progressive type, *Journal of Reliability and Statistical Studies*; Vol. **6(I)**, 101-113
64. Shanubhogue, Ashok and Jiheel, Alaa. K. (2013). Double Stage Bayes Shrinkage Estimation of Scale Parameter Of Weibull Distribution Under Different Loss Functions Using Progressive Type IICensored Sample, *JP Journal of Fundamental and Applied Statistics*, **4(1,2)**, 23-40.
65. Shanubhogue, Ashok and Jiheel, Alaa. K. (2013). Shrinkage Estimation of the Reliability Function of the Proportional Hazard Family of Distribution Functions under Different Loss Functions Using Progressive Type II Censored Sample. *Far East Journal of Theoretical Statistics*, V 45(2), 91-110.
66. Jiheel,A.K. and Shanubhogue, A.(2014).Double Stage Shrinkage Estimation of the Reliability Function of the Proportional Hazard Family of Distribution Functions under Different Loss Functions Using Progressive Type II Censored Sample. *Journal of Advances in Mathematics*, V 8(1), 1381-1400.
67. Jiheel, A.K. and Shanubhogue,A.(2014).Shrinkage Estimation of the Entropy Function for the Exponential Distribution under Different Loss Functions Using Progressive Type II Censored Sample. *International Journal of Mathematics and Computer Research* V.2 (4), 394-402.

68. **Shanubhogue, A.,** Raykundaliya, D.P. (2014) "A Test for Main Effects When Observations are Randomly Right Censored." *Advances and Applications in Statistics. Advances and Applications in Statistics, Vol. 39(1), 1-23.*
69. Jadav, D.B. and Shanubhogue,A.(2014). Kiefer Bound in Truncated Distributions. *International Journal Of Mathematics And Computer Research ,V.2(6) 469-483.*
70. Shanubhogue, A. and Raykundaliya, D.P. (2014)Test for homogeneity of lifetimes of several systems under generalized inverted scale family of distributions based on Type II censored sampling design, *InterStat , #1,1-25*
71. Shanubhogue,A. and Jadhav,D.B.(2014).Attainable Kiefer Bounds Using Censored Samples from Left Truncated Family of Distributions. *International Journal of Applied Mathematics& Statistical Sciences (IJAMSS) Vol. 3, Issue 6, 57-62*
72. Shanubhogue,A. and Jadhav,D.B.(2014). Lower Bounds on Variance of Estimators Past, Present and Future. *International Journal of Science and Research (IJSR) Volume 3 Issue 11,1296-1298.*
73. Shanubhogue,A. and Jadhav,D.B.(2015). Attainable Kiefer Bounds Using Censored Samples From Right Truncated Family of Distributions. *Far East Journal of Theoretical Statistics,V.50(1),21-30*
74. Shanubhogue,A. and Jadhav,D.B.(2015)Kiefer Bound for Doubly Truncated Distributions. *International Journal of Mathematics and Computer Research Vol 2, Issue 6, 850-860*
75. Avinash Shanubhogue and Ashok Shanubhogue(2015) Reduction of the Cycle Time Using Lean Manufacturing on a Semi-Automatic Gear Teeth Generating Machine. *International Journal of Modern Sciences and Engineering Technology (IJMSET), Vol. 2, Issue 1, 37-44.*
76. Shanubhogue, A. and Raykundaliya, D.P.(2015) A Study of Inferential Problem About the Lifetime of Homogeneity of Several SystemsUnder Generalized Exponential Model Based on Type II Censored Sampling Design. *ProbStat Forum, Vol.8, pp. 24–33.*
77. Shanubhogue, A. and Raykundaliya, D.P.(2015) Estimation of Parameters and Reliability Characteristics in Self Relocated Design. ***International Journal of Statistics and Reliability Engineering (IJSRE) Vol.2( 1)***
78. Shanubhogue, A. and Raykundaliya, D.P. (2015) Estimation of Parameters and Reliability Characteristics in Self Relocated Design under Generalized Inverted Family of Distribution, ***Special Issue on Reliability and Dependability Modeling Analysis for Complex Systems to the Journal Mathematics in Engineering, Science and Aerospace (ISSN: 2041-3165 (print) 2041-3173 (online)) Vol.6 (2)***

79. Raykundaliya, D.P. and Shanubhogue, A. (2015) Comparison Study: Taguchi Methodology vis-à-vis Response Surface Methodology Through a Case Study of Accelerated Failure in Spin-on-Filter *International Advanced Research Journal in Science, Engineering and Technology Vol. 2, Issue 3, pp 1-5.*
80. Shanubhogue, Ashok, Sinojiya, Ankit,R.(2015) A New Generalized Gamma Frailty Model. *JP Journal of Biostatistics, Vol 12(1), pp 1-13.*
81. Shanubhogue,Ashok, Sinojiya Ankit,R(2016) A New Generalized Weibull-Exponential Frailty Model (Accepted for Publication in *Open Journal of Statistics*)

#### **Details of Books Written**

1. Deshpande, J.V., Gore, A.P. and Shanubhogue, A. (1995): Statistical Analysis of Non-normal Data. *New age International Publishers Limited and Wiley Eastern Limited.*
2. Riyadh Al-Mosawi, Ashok Shanubhogue(2012) Estimation Following Selection of Discrete Distributions. *Lambert Academic Publishing*
3. Dattajirao Jadhav andAshok Shanubhogue(2015) Some Contribution to Kiefer Bound for Variance. *Lambert Academic Publishing*
4. Ashok Shanubhogue and Dharmesh Raykundaliya (2015). Fitting Statistical Distributions for ATM and other Bank Transactions. *Lambert Academic Publishing*

#### **Detail of M.Phil Guided**

Sr.No.	Name	Title of Dissertation	Year
1.	N.S.Dhoni	A Study of Two Phase Regression	1990
2.	K.Muralidharan	Tests for Exponentiality Against Positive Ageing	1992
3.	Bani Brata Dass	A study of Price Adjusting Sampling Plans and Some Contributions	1994
4.	Mr. Nirmal R Jain	A study of uniformly minimum variance unbiased estimation in non-regular family of distributions	1998
5.	Mr.Ankit R Sinojiya	A Study of Bivariate Weibull Distributions	2009
6.	Mr.Nirav K Bapat	A Study of Laplace Distribution	2009
7.	Mrs. Madhu B Patidar	A Study of Logistic Regression and its Applications	2011
8.	Miss Bimla Negi	A study on the the measures of Correlation Coefficients.	2013

### Details of Ph.D Guided

Sr.No.	Name	Title of Dissertation	Year
1.	K.Muralidharan	Some Conditional Tests Based on Quadratic Form in the Presence of Nuisance Parameters	1996
2.	Bani Brata Dass	A Study of Acceptance Sampling Schemes with Emphasis on the Economic Aspect.	1998
3.	Ramkrishna L Shinde	Estimation of Parameters and Reliability in Some Failure Time Distributions	2000
4.	Arun Kumar Singh	Some Contributions on Uniformly Minimum Variance Unbiased Estimation in Exponential and Irregular Families of Distributions.	2007
5.	Riyadh Rustam Muhsen Al- Mosawi	Some Contributions on Estimation Following Selection	2010
6.	Mr.Nirmal R Jain	Some studies on non-regular families of distributions	2013
7.	Mr.Alaa Khleef Jaheel	A study on shrinkage estimation under progressive type – II censoring	2014
8.	Mr.D.B.Jadhav	Some Contributions to Variance Bounds	2014
9.	Mr. Mayank V Bhatt	Nonparametric two sample Tests for scale and their applications in quality control	2015
10.	Mr.Dharmesh P Raykundaliya	Reliability Oriented Designs	2015
11.	Mr.Ankit R Sinojiya	Frailty Regression Models in Bivariate and Mixture Distributions	2016

### Details of Ph.D. Pursuing

Sr.No	Name of the Student	Topic of Research/Year of Registration	Supervisor
1.	Mr.Vyomesh Nandurbarkar	A study on inferential problems of newly proposed distributions./November 2009.	Prof.Ashok Shanubhogue
2.	Rajendra Ganapatrao Desai	Tests Based on Quadratic Forms	Prof.Ashok Shanubhogue

## **PRIZES AND AWARDS**

- c. Received Hari Ohm Ahram Prerit Shri Bhaikaka Inter University Smark Trust Award for the Research Paper No.18 for the year 1993-94.
- d. Name is included in the Seventh Edition of “International Directory of distinguished Leadership” published by Americal Biographical Institute. Inc (ABI).

(16) Visit to other Institutions/Countries for Academic Purpose:( Please separate sheet if necessary)

Sr.No.	Institution/Country visited	Sponsoring	Year	Purpose
1	Centre for Ecological Sciences Indian Institute of Science Bangalore	Indian Institute of Science	1987	Statistical Consultancy
2.	Department of Statistics, Bhavnagar University.	U.G.C Visiting fellow scheme	1997	To Deliver lectures and for research seminars for two weeks.
3.	University of Pune	Advanced study centre in Statistics	1999	Collaborative Research.
4	Department of Statistics, Bhavnagar University.	U.G.C Visiting fellow scheme	3-17 Jan, 2002	To Deliver lectures and for research seminars for two weeks.
5	Department of Statistics, Shivaji University, Kolhapur	U.G.C Visiting fellow scheme	31 <sup>st</sup> Dec. 2004 to 1 <sup>st</sup> Jan. 2005	To Deliver Lectures and for research seminars
6	Department of Statistics, Bhavnagar University.	U.G.C Visiting fellow scheme	March 4-7,200 5 and 18-21,2 005	To Deliver lectures and for research seminars for eight days.

### Resource Person in Refresher Courses

Sr.No.	Nature of Participation	Sponsorship	Year	Duration
1	Resource Person	Department of Statistics Sardar Patel University	4 <sup>th</sup> Oct. to 24 <sup>th</sup> Oct,1993	3 weeks
2	Resource Person	Department of Statistics University of Pune, Pune	17 Nov to 14 Dec, 1993	4 weeks
3	Resource Person	Department of Statistics Sardar Patel University	16 <sup>th</sup> January to 5 <sup>th</sup> Feb. 1995	3 weeks
4	Resource Person	Academic staff college Saurashtra University Rajkot	22-23 Sep, 1999	2 days
5	Resource Person	Academic Staff college Gujarat University Ahmedabad	1 Dec, 2000	1 day
6	Resource Person	Academic Staff College Saurashtra University Rajkot	23-24 Feb, 2000	2 days
7	Resource Person	Academic Staff College Gujarat University Ahmedabad	13 March, 2000	1 day
8	Resource Person	Department of Statistics Shivaji University, Kolhapur.	16-18 October, 2002.	3 days.
9	Resource Person	18 <sup>th</sup> Refresher Course in Statistics	5-6 December 2008	2 days
10	Resource Person	"1 <sup>st</sup> Refresher Course in Social Sciences", Academic Staff College, Sardar Patel University, V.V.Nagar	2010.	Two sessions.
11	Resource Person	5 <sup>th</sup> Refresher Course in Environmental Studies Academic Staff College Gujarat	June 17, 2010	1 day
12	Resource Person	2 <sup>nd</sup> Refresher Course in Research Methodology in Humanities and Social Sciences. Academic Staff College S.P.University,V.V.Nagar	November 20 and 24 2010 (Two Lectures)	2 day
13	Resource Person	Refresher Course in ICT Academic Staff College S.P.University, V.V.Nagar	November 27-28,2010 (Four lectures)	2 days
	Resource Person	7 <sup>th</sup> Short term course in Research Methodology Academic Staff College	February 11, 2011	1 day

		S.P.University, V.V.Nagar		
14	Resource person	"4 <sup>th</sup> short term course for Ph.D scholars" at Academic Staff College, S.P.University, V.V.Nagar	March 1-3, 2011.	
15	Resource Person	2 <sup>nd</sup> Interaction Programme for Ph.D Scholars	March 24, 2011	1 day
16	Resource Person	1 <sup>st</sup> Refresher Course for Commerce and Management Science Academic Staff College S.P.University, V.V.Nagar	May 31 <sup>st</sup> –June 1 <sup>st</sup> , 2011	2 days
17	Resource Person	5 <sup>th</sup> Refresher Course in Environmental Studies organized by the Academic Staff College, Gujarat University, Ahmedabad,	June 17, 2011	
18	Resource Person	2 <sup>nd</sup> Refresher Course on ICT Applications Academic Staff College S.P.University, V.V.Nagar	November 16-17, 2011	2 days
19	Resource Person	Seventh Short term course in Research Methodology, Academic Staff College, S.P.University, V.V.Nagar	February 11, 2012	2 days.
20	Resource Person	2 <sup>nd</sup> Interaction programme for Ph.D Scholars, Academic Staff College S.P.University, V.V.Nagar	March 24, 2012.	Two lectures
21	Resource Person	10 <sup>th</sup> Refresher Course:Commerce and Management, Academic Staff College S.P.University, V.V.Nagar	May 28-29, 2012	Four lectures
22	Resource Person	15 <sup>th</sup> orientation programme, Academic Staff College S.P.University, V.V.Nagar	July 7,2012	two lectures
23	Resource Person	11 <sup>th</sup> Refresher Course:Agriculture Science, Academic Staff College S.P.University, V.V.Nagar	August 31, 2012	two lectures
24	Resource Person	12 <sup>th</sup> Refresher Course :Mathematical Sciences, Academic Staff College S.P.University,	December 12, 2012	Two lectures

		V.V.Nagar		
25	Resource Person	UGC Academic Staff College, Sardar Patel University 17 <sup>th</sup> Refresher Course : (1/7/2013 to 21/7/2013)	9,11/07/2013	Four Lectures
26	Resource Person	UGC Academic Staff College, Sardar Patel University 20 <sup>th</sup> Orientation Programme (5/8/2013 to 11/2013 to 1/9/2013)	August 24, 2013	Two Lectures
27	Resource Person	UGC Academic Staff College, Sardar Patel University 20 <sup>th</sup> Orientation Programme (11/11/2013 to 8/12/2013)	December 4, 2013	Two Lectures
28	Resource Person	UGC Academic Staff College, Sardar Patel University 20 <sup>th</sup> Orientation Programme (11/11/2013 to 8/12/2013)	December 5, 2013	Two Lectures
	Resource Person			
29	Resource Person	UGC Academic Staff College, Sardar Patel University 23 <sup>rd</sup> Refresher Course : Basic and Natural Sciences (20/01/2014 to 09/02/2014) Role of Statistics in Scientific Experiments	23-01-2014	One lecture
30	Resource Person	UGC Academic Staff College, Sardar Patel University 23 <sup>rd</sup> Refresher Course : 22 <sup>nd</sup> Orientation Programme (06/01/2014 to 02/02/2014)	<b>30-01-2014- I</b>	One lecture
31	Resource Person	UGC Academic Staff College, Sardar Patel University 23 <sup>rd</sup> Refresher Course : 22 <sup>nd</sup> Orientation Programme (06/01/2014 to 02/02/2014)	<b>30-01-2014</b>	One Lecture of 90 minutes

**Conference/Seminar/Workshop Attended 1983-2014**

Sr.No.	Seminar/Conference/Workshop	Year	Status (N-National) (IN-International) (R-Regional)
1.	International conference on statistics I.S.I. Delhi(Jointly organized by ISI and Bernoulli Society)	1983	IN
2.	All Indian Advanced U.G.C seminar on Probability and Statistical Inference, organized by the Department of Statistics, Panjab University, during April 15-16, 1985(Paper Presentation)	1985	N
3.	Statistical Ecology Workshop/Seminar organized by the Department of Geology, University of. Poona,Pune, during February 17-23,1986.(Resource Person)	1986	IN
4.	Work shop on “Statistical Methods for Ecologist” Geology department University of Pune December, 2 - 14, , 1991.	1991	IN
5.	Work Shop On “Role Of Quality Assurance In Clinical Laboratory”SPAN Research Centre, Surat December 20-22, 1991(Invited Talk)	1991	N
6.	XIV annual conference of ISPS and Department of Statistics, University of Pune, Poona November 12-14, 1993(Paper Presentation)	1993	N
7.	Eighteen Indian Social Science Congress, M.S.University, Baroda December 22-25, 1993 (Invited talk)	1993	N
8.	Regional Workshop on Statistical Methods for Ecologist sponsored by UNESCO and UNEP, held at Department of Statistics,University of Pune January, 9-21, 1995(Resource Person).	1995	IN
9.	Golden Jubilee Annual Conference of Gujarat Statistical Association at B.A.College of Agriculture, Gujarat Agriculture University, Anand Campus. November 22-24, 1996.	1996	R
10.	National Seminar on Survey Sampling, Design of Experiments and Statistical Inference at Department of Statistics, Sardar Patel University Vallabh Vidyanagar February, 20-22, 1997.(Invited Talk)	1997	N
11.	“Statistical Methods of Quality and Productivity Improvement: Current trends” organized by SQC and O.R. Division of ISI, New Delhi. February 5-6, 1998.	1998	N
12.	Work shop on Reliability Theory and Survival Analysis, Department of Mathematics, I.I.T. February 23-25 Nov, 1998.	1998	N
13.	Operation research/ Operation Management, Organized by Gujarat Statistical Association and Department of Statistics, Gujarat University, Ahmedabad January 7, 1999.	1999	N
14.	Gujarat Science Congress at M.S.University, Baroda February 12-13, 2000.	2000	R
15.	National level Conference on “Developments in Statistical Science and Statistical Computing” at Department of Statistics, Sardar Patel University, Vallabh Vidyanagar February 18-19, 2000(Joint Coordinator)	2000	N

16.	U.G.C sponsored National Level Seminar on Inventory Control and Management at Department of Statistics , Gujarat University Ahmedabad, March 22- 24, 2000(Paper Presentation).	2000	R
17.	U.G.C sponsored national level seminar on "Reliability Theory and Its Applications" held at Department of Statistics , University of Pune, Pune, June 21-23, 2001.	2001	N
18.	XXII annual conference of Indian Society of Probability and Statistics, Seminar on Advanced Statistical Methods Sponsored by Advanced Study Centre, University of Pune, Conference Indian Basian Society held at National Insurance Academy organized by the Department of Statistics , University of Pune, Pune, August 11-14, 2002.(Presented Invited Paper).	2002	N
19.	24 <sup>th</sup> Annual Conference of Gujarat Statistical Association Department of Statistics, Bhavnagar University, Bhavnagar Oct 11-12, 2003(Presented Invited Paper)	2003	R
20.	Golden Jubilee Conference on Recent Developments in probability and statistics , Department of Statistics, University of Pune ,December22-24, 2003.	2003	N
21.	UGC Sponsored National Level Seminar on “Recent Developments in Data Collection and Analysis January 29-31, 2004(Presented a talk)	2004	N
22.	State Level Seminar on“ Sporting in Statistics” organized by the Department of Statistics, Sardar Patel University, during February 28,2004.	2004	R
23.	A National Workshop on Non-parametric Methods Organized by the Department of Statistics Shivaji University, Kolhapur, January 8-10, 2006.	2006	N
24.	National Conference on “Statistical Inference” organized by the Department of Statistics and Centre for Advanced Studies in Statistics, University of Pune, during January 8-10,2006.(Presented invited talk and chaired a session)	2006	N
25.	UGC sponsored National Level Workshop On “Bio and Medical Statistics ” organized by the Department of Statistics, during February 20-26, 2006.(Coordinator and Resource Person)	2006	N
26.	National Level Seminar on “Recent Trends in Bio-Medical Statistics” Department of Statistics, Gujarat University, Ahmedabad, during February 24-25, 2007(Invited Talk)	2007	N
27.	UGC sponsored state level seminar on “Recent development in Statistical Inference” organized by the Department of Statistics, Karmaveer Bhaurao Patil Mahavidyalaya, Karmaveer Path, Pandharpur , Solapur, during September 10, 2007(Invited Talk)	2007	N
28.	Workshop on “Research Methodology in Commerce and Management ” organized by Sheth Domodardas School of Commerce, Gujarat University,Ahmedabad, during September 30-October 2, 2007.(Invited Talk)	2007	R
29.	UGC sponsored workshop on "Industrial Statistics and Career as a Statistician in Industries" for UG and PG students of Statistics held at Department of Statistics, North Maharashtra	2008	N

	University ,Jalgaon, during January 12-14, 2008.		
30.	State Level Conference on “Applied Statistics” Organized by S.M.Patel Institute of Commerce, GLS Campus Ahmedabad, July 26, 2008.(Invited Talk)	2008	R
31.	Quality Council of India Sponsored “Orientation Programme on Quality and Six Sigma” organized by the Department of Statistics, M.S.University, Vadodara, August 22-23, 2008(Invited Talk)	2008	R
32.	National Workshop on ‘Recent Trends in Statistics’ organized by Department of Statistics, Yashwantrao Chavan Institute of Sciences, Satara, Maharashtra,October 15-16, 2008.(Invited Talk)	2008	N
33.	National workshop cum Training program “Statistics and Six Sigma”, organized by the department of statistics ,M.S.University, Vadodara, during December 11-13, 2008.(Invited Talk)	2008	N
34.	National Workshop on The Impact of Statistical Techniques In Pharmaceutical Research Organized By Ramanbhai Patel College of Pharmacy & Charotar Institute of Computer Applications, held at Education Campus Changa, during January 5-9, 2009(Invited Talk)	2009	N
35.	State Level Seminar “Career Opportunities in Statistics” organized by the Department of Statistics, Sardar Patel University, Vallabh Vidyanagar , during August 01-02, 2009(Coordinator).	2009	R
36.	27th annual conference of Indian Society for Medical Statistics organized jointly by ISMS and Department of Statistics, BHU Medical College, Varanasi-221005 (UP), during November 27-29, 2009.(Poster Presentation)	2009	N
37.	International Conference on “Recent Developments in Probability & Statistics” organized by the Department of Statistics, University of Pune, Pune, during December 21-23, 2009.	2009	IN
38.	UGC sponsored National Seminar on “Impact of Statistics on Science and Society” organized by the Department of Statistics, M.G. Science Institute, Navrangpura, Ahmedabad, during February 25-26, 2010.	2010	N
39.	One day seminar on “Career Opportunities in Quality and Productivity Management” organized by the Department of Statistics, Sardar Patel University, during January 9, 2010(Coordinator and Presented an Invited Talk)	2010	R
40.	National Conference on “Industrial Statistics and Computational Mathematics”, organized by School of Mathematical Sciences, North Maharashtra University,Umavi Nagar, Jalgaon	January 21-23, 2010.	N
41.	UGC Sponsored National Level Conference on “Present Practices and Future Trends in Lena Six Sigma”, Department of Statistics, Sardar Patel University, Vallabh Vidyanagar,	February 13-14, 2010.	N
42.	UGC Sponsored National Workshop on Medical and Pharmaceutical Statistics, Department of Statistics, Sardar Patel	2010	N

	University, Vallabh Vidyanagar, during February 25-28, 2010.( Coordinator and Chaired two sessions)		
43.	Gujarat Physiotherapy Colleges Student Conference, organized by the Anand College of Physiotherapy, November 19, 2010.(Invited Talk)	2010	R
44.	State Level Workshop on Research Methodology in Commerce and Management, organized by the Department of Business Studies, Sardar Patel University Vallabh Vidyanagar during December 2-4, 2010.(Invited Talk)	2010	R
45.	Participated in the One-day workshop of “Patent and Knowledge Management” ,jointly organized by the Sardar Patel University and Knowledge Commission Gujarat, During.	July 21, 2010	R
46.	Attended one day workshop on “e-content development (NME-ICT) organized by Sardar Patel University on	August 21, 2010	R
47.	Delivered an invited talk on “Statistics in Medicine” at Gujarat Physiotherapy Colleges Student Conference Organized by Shree B.G.Patel College of Physiotherapy, Anand.	November 19, 2010.	R
48.	Delivered an invited talk on “Designing and Testing of Hypotheses” at State Level Workshop on “Research Methodology in Commerce and Management” organized by the Department of Business Studies, Sardar Patel University, Vallabh Vidyanagar, December 2-4.	2010	R
49.	4 <sup>th</sup> Indo_Australian Conference On “Biomaterials, Tissue Engineering and Drug Delivery Systems” , Sardar Patel University, Vallabh Vidyanagar, during (Participated), February 10-11,	2011.	IN
50.	26 <sup>th</sup> GSA National Level Conference on “Recent Application in Statistics” organized by PG Department of Statistics, Saurashtra University, Rajkot. (Invited Talk), March 26.	2011	R
51.	AICTE Sponsored Two days National Seminar on “Application of Biostatistics and Use of Software in Pharmaceutical Research” organized by Shri B.M.Shah College of Pharmaceutical Education and Research, Modasa, Gujarat.(Invited Talk). March 28-29	2011	N
52.	Attended the workshop as invited participant in Five days exhaustive module on “Official Statistics” conducted National Academy of Statistical Administration(NASA) May 23-May 27.	2011.	N
53.	Delivered invited talk in the UGC sponsored National Level short term Training programme on “Higher Competency in Advanced Social Work Research Methodology organized by Department of Social Work, Sardar Patel University, Dec 17-Dec 23.	2011	N

54.	Delivered Invited talk entitled "Biostatistics in Clinical Research" in the GUJCOST sponsored national seminar on "Application of Statistical Analysis in Pharmaceutical Research" , organized by Anand Pharmacy College, Anand, September 24.	2011	N
55.	Deliver the talk on "Career Opportunities in Statistics" in one day State Level Seminar "Career Opportunities in Statistics Through Statistical Computing" organized by PG Department of Statistics, Sardar Patel University, Vallabh Vidyanagar, January 08.	,2011	R
56.	Participated in 4 <sup>th</sup> Indo-Australian conference on "Biomaterials, Tissue Engineering and Drug Delivery Systems" organized by the Sardar Patel University, Vallabh Vidyanagar, February 10-12,	2011.	IN
57.	Deliver the talk on "Career Opportunities in Quality Management" in one day State Level Seminar "Career Opportunities in Quality Management" organized by P.G .Department of Statistics, Sardar Patel University, Vallabh Vidyanagar. January 20.	2011	R
58.	Deliver an invited talk on " Biostatistics in Clinical Trials" in 26 <sup>th</sup> GSA National Level Conference on "Recent Application in Statistics" organized by PG Department of Statistics, Saurashtra University, Rajkot.	March 26, 2011	N
59.	Participated in One Day Workshop on Content Development of Elective Courses under Choice Based Credit System organized by Knowledge Consortium of Gujarat, Department of Education and Sardar Patel University, V.V.Nagar.	February 24, 2011	R
60.	Participated in One Day Workshop on "Challenges and Problems in Implementing Choice Based Credit System(CBCS) at UG Level" organized by Examination Reform Unit and Internal Quality Assurance Cell(IQAC), Sardar Patel University, on	March 24,2011	R
61.	Delivered an invited talk on "Six Sigma Concept and its Application" in the National conference on " Emerging Trends In Applied Statistics" held at H L College of Commerce, Ahmedabad under the banner of Gujarat Statistical Association & H L College of Commerce.	March 31, 2012	N

62.	Delivered invited talk "Career opportunities in Statistics" in a the "State Level One-Day Seminar on Career Opportunities in Statistics" organized by the Department of Statistics, Department of Statistics, Sardar Patel University, Vallabh Vidyagar.	January 07, 2012.	R
63.	Delivered an invited talk "Career Opportunities in Quality Management" in the State Level One-Day Seminar on Career Opportunities in Quality Management organized by the Department of Statistics, Sardar Patel University,	January 21, 2012.	R
64.	Delivered an invited talk "Uniformly Minimum Variance Estimation: An Easy Approach" at National Conference on Recent Developments in Mathematics & Statistics held at Tuljaram Chaturhand Arts, Science And Commerce College Baramati, Maharashtra, India.	February 14-16, 2013.	N
65.	Nation Conference on Recent Advances in Statistics with Application in Finance and Actuarial Science (RASAFAS 13)	February 22-23, 2013.	N
66.	Delivered invited talk on "Double Stage Bayes Shrinkage Estimation Of Scale Parameter of Weibull Distribution Under Different Loss Functions Using Progressive Type II Censored Sample" in the Invitation for delivering invited talk in the National Conference on "Current Practices in Mathematics, Statistics and Actuarial Science" organized by School of Mathematical Sciences, North Maharashtra University, Jalgaon, Maharashtra, India,	March 7-8, 2013.	N
67.	Delivered invited talk on "Lean six-sigma methodology: Case studies" at the National Workshop on "'Recent Trends in Applied Statistics : An Interdisciplinary Approach' , conducted by Department of Statistics , Fergusson College ,Pune .	March 15-16, 2013	N
68.	Delivered an invited talk on "Career opportunity through MQPM programme" in the seminar on "Total Quality Management" organized by QCFI Vadodara Chapter.	September 21, 2013	R
69.	Attended Gujarat state level 24 <sup>th</sup> convocation on quality circle and allied quality concepts,	September 22, 2013.	R
70.	Delivered invited talk on "Test based on quadratic form in the presence of nuisance parameters" in the International Conference on Role of Statistics in the Advancement of Science and Technology On the Occasion of Diamond Jubilee Year of the Department of Statistics & The International Year of Statistics, Organised by Department of Statistics, University of Pune,	December 16-18, 2013	IN

71.	Delivered invited talk on “ Frailty models” in National Seminar on “Bio-Statistics and Data Analytics” organized by Department of Statistics, Faculty of Science, M.S.University, Vadodara during.	Decemb er, 23-24, 2013	N
72.	Delivered invited talk on “Reduction of cycle time and shift for S and B Gear Generation in K-C-60 UM” in the International Conference on Statistics and Information Technology for Growing Nation, organized by ISPS and Department of Statistics, Sri Venkareshwara University, Tirupathi, A.P.	30 Nov. 30-02 Dec. 2014	N

## **11. Seminar/Conferences/Workshop organized(Worked as Coordinator/Director)**

1. One day seminar on “Career opportunities in Finance through Statistics” Organized by department of Statistics, Sardar Patel University, Vallabh Vidyanagar on 31<sup>st</sup> January, 2009
2. One day seminar on “Career opportunities in Quality Management”. Organized by department of Statistics, Sardar Patel University, Vallabh Vidyanagar on 22<sup>nd</sup> January, 2009
3. State Level Seminar “Career Opportunities in Statistics” during August 01-02, 2009
4. UGC Sponsored workshop on “Medical and Pharmaceutical Statistics” during February 25-28, 2010
5. Training programme on “ISO 9001 Lead Auditor Course” for MQPM Students through ISOQAR India (Pvt.) Ltd. during December 03-07, 2010
6. Six days corporate training programme entitled “Lean Six Sigma Black Belt (LSSBB)” for MQPM students through ‘Break Through Management Group International (BMGI)’, Bombay during December 14-19, 2010
7. UGC Sponsored National Level Conference on “Present Practices and Future Trends in Lean Six Sigma”, February 13-14, 2010
8. One day seminar on “Career Opportunities in Quality and Productivity Management” January 9, 2010
9. State Level Seminar “Career Opportunities in Statistics through Statistical Computing” organized during January 08, 2011
10. State Level Seminar “Career Opportunities in Quality Management” during January 22, 2011
11. “Lean Six Sigma Black Belt (LSSBB)” for MQPM students through ‘Break Through Management Group International (BMGI)’, Bombay organized during December 5-10, 2011.
12. “ISO 9001 Lead Auditor Course” for MQPM Students through ISOQAR India (Pvt.) Ltd. during November 28-December , 2011.

13. Two days State Level Seminar on "Career Opportunities Statistics through Statistical Computing" organized during January 07, 2012.
14. One days State Level Seminar on "Career Opportunities in Quality Management" organized during January 21, 2012.
15. A National level one day seminar "Career Opportunities in Quality Management", Organized by the MQPM programme of the department, during February 7, 2013
16. Training programme on "QMS:ISO 9001:2008, EMS: ISO 14001 and OHSAS 18001" Lead Auditor Course for MQPM Students through ISOQAR India (Pvt.) Ltd. during January 8-23, 2014
17. Six days corporate training programme entitled "Lean Six Sigma Black Belt (LSSBB)" for MQPM students through 'Break Through Management Group International (BMGI)', Bombay, January 2-7, 2014
18. Training programme on "QMS:ISO 9001:2008, EMS: ISO 14001 and OHSAS 18001" Lead Auditor Course for MQPM Students through ISOQAR India (Pvt.) Ltd. during January 8-23, 2014
19. UGC Sponsored National Seminar on "Research in Statistical Science: Past, Present and Future" organized by the department of Statistics, Sardar Patel University, Vallabh Vidyanagar, February 21-22, 2014.
20. A National Level One-Day Seminar on Career Opportunities in Quality Management February 10,2015.
21. Six days corporate training programme entitled "Lean Six Sigma Black Belt (LSSBB)" for MQPM students through 'Break Through Management Group International (BMGI)', Bombay, January 5-10, 2015.
22. International Statistical Institute's Outreach Committee for South Asia Sponsored "A Three Day International Workshop on Statistics and Society" organized by the Department of Statistics, Sardar Patel University as academic partners, during April 4-6, 2015.(Worked as National Co-convener)

### **Contribution Done in Developing New Courses**

- (i) Framed a four credit course on C++ for M.Sc. Statistics. Initially taught the course for several years.
- (ii) Framed a four Credit Course on Bioassays for M.Sc. Statistics. Since the introduction, I learnt the subject and teaching to M.Sc. Statistics Students.
- (iii) Framed a four credit course on Actuarial Statistics for M.Sc. Statistics. I am teaching the since its introduction.
- (iv) Framed a four credit course on Generalized Linear Models.
- (v) Revised complete course structure of MQPM.

### **Contribution as Member of University Bodies.**

- i. Working as University Representative in Grade Review Committee at B.V.M. Engineering College, Vallabh Vidyanagar.
- ii. Working as University Representative in the Grade Review Committee at ISTAR.
- iii. Working as Chairman, Board of Studies in Statistics( Second Term)
- iv. Worked as Head of Department of Statistics from August 2003 to March 2012.
- v. Working as Coordinator UGC Innovative Course MQPM(Self Finance) since 2005.
- vi. Working a Coordinator in Certificates Courses in Biostatistics/Financial Statistics/ SPSS
- vii. Worked as Senate Member for two terms.
- viii. Worked as P.G. Board Member for two terms.
- ix. Worked as co-opted member of Board of Studies in Statistics, Bhavnagar University, Bhavnagar.
- x. Working as a co-opted member of Board of Studies in Statistics, M.S.University, Vadodara.

- xi.* Worked as V.C Nominee in the selection committees of teaching staff in various colleges affiliated to Sardar Patel University.
- xii.* Worked as member of Local Inspection Committees for the approval of new courses at affiliated colleges.