

Curriculum Vitae
of
SANJEEV V. SABNIS

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Birth Date: 28th August, 1958.

Marital Status: Married.

Academic Background:

B. Sc. (Statistics) with Distinction, University of Poona, Pune, India, 1979.

M. Sc. (Statistics) with First Class, University of Poona, Pune, India, 1981.

Ph. D. (Statistics), Old Dominion University, Norfolk, Virginia, U.S.A., 1987.

Research Areas:

Reliability Theory, Industrial Statistics.

Professional Experience:

1. Designation : Statistician.

Period : July, 1981-August, 1982.

Organisation : Kirloskar Oil Engines Ltd., Pune, India.

2. Designation: Pool Officer (CSIR Project).

Period : February, 1988-August, 1988.

Institute : Department of Statistics, University of Poona, Pune, India.

3. Designation : Lecturer.

Period : September, 1988-August, 1989.

Institute : Department of Mathematics and Statistics, Saurashtra
University, Rajkot, India.

4. Designation: Assistant Professor.

Period : September, 1989-February, 2001.

Institute : Department of Mathematics, Indian Institute of Technology,
Bombay.

5. Designation: Associate Professor.

Period : March, 2001. Till this date.

Institute : Department of Mathematics, Indian Institute of Technology,
Bombay.

Courses taught:

B. Tech. Level: 1. Preparatory Mathematics I, 2. Mathematics I (Calculus), 3. Probability, Random Processes and Statistical Inference.

M. Sc. Level: 1. Introduction to Probability Theory, 2. Introduction to Mathematical Statistics, 3. Applied Stochastic Processes, 4. Design of Experiments, 5. Time Series Analysis, 6. Categorical Data and Regression Analysis, 7. Introduction to Data Mining, 8. Statistical Quality Control, 9. Applied Multivariate Analysis, 10. Mathematical Theory of Reliability, 11. Theory of Nonparametric Statistics, 12. Biostatistics.

Ph. D. Level: 1. Weak Convergence & Martingale Theory, 2. Stochastic Processes.

AWARD:

EXCELLENCE IN TEACHING AWARD – 2011.

Guidance of Students:

Guidance of Doctoral Students:

1. Mini N. Balu (nee Nair): Some Preservation properties in Mathematical Theory of Reliability. Graduated in July 2000.
2. Hariharan Nair: A Study of Reliability Test Plans. Graduated in August 2004.
3. Gopichand Agnihothram: Construction of Optimal Reliability Test Plans. Graduated in August 2008.

Guidance of M. Tech. Students (of One year duration):

1. Chinmay M. Date: Simulation of a Queueing Model for Hospital Systems. Graduated in July 2000. (Co-guide: Prof. N. Hemchandra).

M. Sc. Projects (of Two-semester duration) guided:

1. 1990: Nikita Nadkarni, Semi Markov Processes.
2. 1990: Mini Nair, Phase Type Distributions.
3. 1992: Ravindra Kotwal, Order Statistics.
4. 1992: Rupali Shah, Unimodality, Convexity and Applications.
5. 1994: M. Parvati, Estimation of $P(X < Y)$.
6. 1997: Sowmdeb Sen, Some Aspects of Ranked Set Sampling (Co-guide: Dr. S. Purkayastha).
7. 1998: Kapildeb Sen, Brand switching analysis in Market Forecasting. (Co-guide: Dr. Chitra Lele).
8. 1998: Deepak Mav, Algorithmic Development for Generalized Estimating Equations.
9. 1998: Aarti Ganu, Applications of Statistics to Mineral Processing Industry.
10. 1999: S Kartik, Algorithmic Development of Log-linear Models.

11. 1999: Mahtab Munshi, Algorithmic Development of Logistic Regression.
12. 1999: Debashish Das, Analysis of Election Data. (Co-guide: Dr. Chitra Lele).
13. 1999: Rudrajyoti Sen, Forecasting Sales and Product positioning of Pharmaceutical Products. (Co-guide: Dr. Chitra Lele).
14. 2000: Chandan Chakraborty, A Study of Diffusion and Substitution Phenomena for Successive Generations of Technological Products.
15. 2000: Kaushik Das, Applications of Survival Analysis to Medical Data (Co-guide: Dr. Chitra Lele).
16. 2000: Srijit Maiti, Time Series Modelling and Forecasting of Sales of Medical Drugs.
17. 2001: Chandrima Das, Survival Analysis. A Case Study.
18. 2001: Gautam Shanbhag, Time Series Modelling of Financial Data.
19. 2001: Shuchismita Sarkar, Construction of Brand Index for Pharmaceutical Products. (Co-guide: Dr. Chitra Lele)
20. 2002: Nancy Mathew, Analysis of Socio-Economic Records using Data Mining Techniques. (Co-guide: Dr. Suman Mitra)
21. 2002: Ashis Kumar, A Study of Random Forests.
22. 2002: Swarup Kumar, A Study of Contingency Tables.
23. 2003: Vasudev Maiya, Statistical Analysis of Longitudinal Categorical Data.
24. 2003: S. Ramya, A Study of Several Model Selection Criteria.
25. 2004: Mohit Das, Structural Equation Modelling.
26. 2005: Madhukar Kumar, Classification and Regression tree based methods for Longitudinal data.
27. 2005: Manish Agarwal, Design Dependence Problem in Generalized Linear Models.

28. 2005: A. Raghuvanshi, Regression Models for Discrete Longitudinal responses.
29. 2005: Pankaj Kumar, Generalized Linear Model approach to categorical Time Series Data.
30. 2006: Pranab Kumar Ghosh, Some Aspects of the Design of Longitudinal Study.
31. 2006: Somnath Karmakar, A Study of Optimal Regression Designs.
32. 2006: Chetna Singh, Analysis of Longitudinal Data in Case-Control Studies.
33. 2006: Bhakti Bhusan Manna, Response Surface Methodology for Discrete Data.
34. 2007: Sanjeev Awasare, Bayesian Analysis of Linear Mixed Models.
35. 2007: Venkata Reddy, Statistical Analysis of Symbolic Data.
36. 2007: Amritangsu Nandi, A Study of Some New Lifetime Distribution Classes Using Notion of Imprecise Reliability.
37. 2007: Lavanya Wadhawa, Selection of Forecasting Granularity to Maximize benefits of Scheduling in Service Industries. (Co-guide: Dr. Sidharth Sengupta, TCS LTD.)
38. 2007: Puspendra Singh, Evaluating New Biomarkers.
39. 2009: Pankaj Kumar, Modelling and Analysis of Degradation Data .
40. 2009: Rohit Singhal, A study of Model Diagnostics for Hazard Regression Models .
41. 2009: Ramaswamy Venkatarajan, A survey of the Likelihood approach to Bioequivalence Trials.
42. 2010: Abhijatri Das, Reliability Demonstration using Bernoulli Data and Extreme (X-) Testing.
43. 2010: Ashutosh Awasthi, A Study of certain aspects of degradation modeling.
44. 2010: Abhishek Sarkar, A Study of High-Dimensional Data.

Publications:

I. Papers Published in Refereed Journals:

1. N. R. Chaganty and S. V. Sabnis (1990). Saddle-point Approximation for the Density of ratio of Two Statistics. *Communications in Statistics*, Vol. 19, No. 11, 4083-4101.
2. S. V. Sabnis and Mini R. Nair (1997). Coherent Structures and Unimodality. *Journal of Applied Probability*, Vol. 34, 812-817.
3. Mini N. Balu (nee Nair) and S. V. Sabnis (1997). Preservation of Certain Dependent Structures under Homogenous Poisson Shock Models. *Statistics and Probability Letters*, Vol. 35, 91-100.
4. Mini N. Balu (nee Nair) and S. V. Sabnis (1999). Preservation of Unimodality under Univariate Shock Models. *Naval Research Logistics*, Vol. 46, 952-957.
5. S. V. Sabnis and Mini N. Balu (nee Nair) (1999). A Note on Preservation of Unimodality under Homogenous Poisson Shock Models. *Metron*, Vol. LVII n. 3-4, 203-209.
6. Hariharan Nair and S. V. Sabnis (2002). Reliability Test Plan for series systems with components having stochastic failure rates. *IEEE Transactions on Reliability*, vol. 51, 17-22.
7. M. V. Inamdar, P. P. Date and S. V. Sabnis (2002). On the Effects of Geometric Parameters on Springback in Sheets of Five Materials subjected to Air Vee Bending. *Journal of Materials Processing Technology*, Vol. 123, Issue 3, 459-463.
8. S. V. Sabnis and Hariharan Nair (2005). Reliability Test Plan For Parallel Systems Having Stochastic Failure Rates. *IAPQR Transactions*, Vol.30, No.1, 33-42.
9. S. V. Sabnis and G. Agnihothram (2006). Application of Arithmetic-Geometric Mean Inequality for Construction of Reliability Test Plan for Parallel Systems in the Presence of Covariates, *Economic Quality Control*, Vol. 21, No. 2, 219-230.
10. A. D. Dharmadhikari, S. V. Sabnis and B. K. Sinha (2007). Construction of Bounds in Prototype Testing. *Journal of Statistical Theory and Applications*, Vol. 6, No. 3, 302-312.

11. S. K. Parcha, S. V.Sabnis and P. K. Saraswati (2007). Taxonomic Application of Classification and Regression Tree (CART) and Random Forests(RF): A Case Study of Middle Cambrian Trilobites. Journal of The Geological Society of India, Vol 70, No. 6, 1033-1038.
12. S.V.Sabnis, G. Agnihotram (2007). Reliability Test Plan for Series Systems in the Presence of covariates, Economic Quality Control, Vol. 22, No. 2, 197-209.
13. S.V.Sabnis, Hariharan Nair (2008). Reliability Test Plans for Series Systems with Discrete Data, Journal of Indian Statistical Association, Vol. 46, No. 1,55-66.
14. S.V. Sabnis, A. D. Dharmadhikari(2010). Interval Estimation for a parameter of Weibull Distribution based on a Sample of Size One , Journal of Applied Statistical Science, Vol. 18, Issue 3.

II. Papers In Preparation (Each of the following, except the last one, has been presented as an invited talk or a Conference talk):

1. Hong Lu, Nair Vijay, Sabnis Sanjeev, Yang Yang, "Semi-parametric Estimation in Models Involving Accelerated Failure Transforms".
2. Sabnis S.V., Kale B. K., Das Abhijatri, "Estimation of Parameters of a Mixture Distribution Using Quantile Functions".
3. Sabnis S.V., Agnihothram G., "Construction of Reliability Test Plans for k-out-of-n and Bridge Systems ".
4. Sabnis S.V., Agnihothram G., Nataraj P.S.V.,"Component Level Reliability Test Plan for a Parallel System using Exact Expression for System Reliability".
5. Chavre Aparna, Sabnis S.V., Suresh A.K., Kane Shantaram, Joshi Ajit, Bellare Jayesh " Generalized Estimating Equation (GEE) Approach for Analysing the Effect of Metal Derived Products on Survival and Hatching of Zebra fish Embryos".

III. Technical Reports:

1. Kapildeb Sen, S.V.Sabnis, Chitra Lele (2000). "Brand-Switching Analysis in Market Forecasting", IMG-TR-2000-6, 1-22.

2. Suchismita Sarkar, S.V. Sabnis, Chitra Lele (2006). "Construction of Brand Index For Pharmaceutical products", IMG-TR-2006, 1-17.

Sponsored Projects Undertaken:

1. **Sponsoring Agency:** Department of Science and Technology, New Delhi.

Title of the Project: Doing Industrial Mathematics via Genetic Algorithms (GA.s), Differential Algebraic Equations (DAE), On-line Optimization, Computer Aided Geometric Design (CAGD), Market Forecasting.

Amount of Grant: Rs. 21.17 lacs

Period: 3 years (1998-2001)

Co-investigators: Prof. M. C. Joshi, Prof. A. K. Pani, Prof. Ranjan Malik, Prof.K.Moudgalya, Prof. Sachin Patkar, Dr. S.V. Sabnis, Dr. Chitra Lele*.

*Dr. Lele and I worked on Market Forecasting component of this project.

2. **Sponsoring Agency:** Department of Science and Technology, New Delhi.

Title of the Project: Study of Optimal Reliability Test Plans.

Amount of Grant: Rs. 6.43 lacs

Period: 3 years (2002-2005)

Consultancy Projects Undertaken:

1. **Organization:** Cytel India Ltd., Pune

Title of the Project: Development of an Algorithm for Generalized Estimating Equations.

2. **Organization:** Associated Cement Companies Ltd., Research Consultancy

Directorate, Thane.

Title of the Project: Applications of Statistics to Mineral Processing Industry.

3. **Organization:** Cytel India Ltd., Pune.

Title of the Project: Development of an Algorithm for Log-linear models.

4. **Organization:** Cytel India Ltd., Pune.

Title of the Project: Development of an Algorithm for Logistic models.

5. **Organization:** Pfizer Ltd., Mumbai.

Title of the Project: Forecasting sales and Product positioning for Pharmaceutical Products

6. **Organization:** A. F. Fergusson & Co., Mumbai.

Title of the Project: Identification of successful Business Practices of Indian Exporting Firms.

7. **Organization:** Indira Gandhi National Centre for the Arts, New Delhi.

Title of the Project: Village India: Identification and Enhancement of Cultural Heritage-A Statistical Analysis

8. **Organization:** Mahindra & Mahindra Ltd., Tractor Division, Mumbai.

Title of the Project: Failure Data Analysis.

9. **Organization:** Novartis Enterprises Pvt. Ltd., Mumbai.

Title of the Project: Development of an Analysis Schedule for Production.

Co-investigator: Dr. Milind Sohoni, Computer Science & Engineering, IIT Bombay

10. **Organization:** Cytel India Ltd., Pune.

Title of the Project: Comprehensive Testing of Statistical Features in the XLMiner Excel Add-In.

11. **Organization:** Dr. D.Y.Patil Vidyapeeth, New Mumbai.

Title of the Project: Statistical Analysis of Entrance Test Data.

12. **Organization:** Tata Infotech Pvt. Ltd., Mumbai.
Title of the Project: Time Series Analysis of Inventory of Stores.
13. **Organization:** Kale Consultants Ltd., Mumbai.
Title of the Project: Building Statistical Models for Estimating Revenue using Airline Data.
14. **Organization:** Asian PPG Industries Ltd., Mumbai.
Title of the Project: Development of Design of Experiments related subroutine.
15. **Organization:** CEAT Tyres Pvt. Ltd., Mumbai.
Title of the Project: Comparison of Performance Two Brands of Tyres.
16. **Organization:** TNS India Pvt. Ltd., Mumbai.
Title of the Project: Discrete Choice Modelling.
17. **Organization:** TNS India Pvt. Ltd., Mumbai.
Title of the Project: Statistical modelling of TRP Ratings.
18. **Organization:** Zafin Labs, Mumbai.
Title of the Project: Time Series Modeling of ATM Data.
19. **Organization:** TNS India Pvt. Ltd., Mumbai.
Title of the Project: Modeling of Panel Data using Hierarchical Bayesian Methodology and Metropolis-Hastings Algorithm.
20. **Organization:** Tata Consultancy Services, Mumbai.
Title of the Project: Selection of forecasting granularity to maximize benefits of scheduling in service industries.
21. **Organization:** BHP Billiton, Melbourne, Australia.
Title of the Project: Data Mining for Petroleum Exploration.

Co-investigator: Prof. G. Mohan, Dept Earth Sciences, IIT Bombay.

22. **Organization:** Directiplex, Mumbai.

Title of the Project: Statistical Analysis of Online Advertising Data (Ongoing).

Organization of Conferences:

1. Organized an International Conference on Statistics, Combinatorics and related Areas jointly with the Forum for Interdisciplinary Mathematics at IIT Bombay during 19-21 December 2000.

At IIT Bombay, I singlehandedly managed the organization of this conference with the help of a group of M.Sc. and Ph.D. students. This conference was attended by about 140 researchers and 60 of them were from foreign delegates. The following Conference Proceedings were brought out.

Conference Proceedings: S.N. Mishra, B. K. Sinha, S.V. Sabnis (Guest Editors), American Journal of Mathematical and Management Sciences, Vol 22, Nos. 3 & 4, 2002.

2. Worked as one of the Coordinators of an International Conference & Instructional Workshop on Industrial Mathematics held at IIT Bombay during 2-9 December 2002.

The conference was preceded by a 5-day workshop, held from 2-6th December, 2002. Eight small groups of participants worked on live problems posed by various industries in India. The following Conference Proceedings were brought out.

Conference Proceedings: Mohan C. Joshi, Amiya Kumar Pani and Sanjeev V. Sabnis (Editors), Industrial Mathematics, Narosa Publishing House, New Delhi 2006. 524 pp. ISBN: 978-81-7319-577-8.

Organization of Industrial Workshops:

I. Organization of Workshops:

1. Took Active part in organizing a Workshop on Industrial Mathematics held at Baroda during 6-9 July 1993.
2. Served as Course Coordinator of a 4-day workshop on INDUSTRY-ORIENTED STATISTICAL TECHNIQUES AND SOFTWARE PACKAGES held at Indian Institute of Technology, Bombay during 1-4 December 1994.
3. Conducted a One-day Workshop on Design of Experiments at Associated Cement Companies Ltd., Research Consultancy Directorate, Thane on 7 November 1997.
4. Organized a 5-day Quality Improvement Program (QIP) Workshop On Mathematical Software In Teaching And Research held at IIT Bombay during July 21-25, 1998.
5. Organized a Workshop on Reliability Theory and Survival Analysis during 25-27 November 1998 at Department of Mathematics, IIT Bombay.
6. Served as Course Coordinator of a 3-day workshop on Mathematical / Statistical Software Packages For Data Analysis, Modeling And Simulation held at Indian Institute of Technology, Bombay during 22- 24 April 1999.
7. A two-day in-house Continuing Education Program (CEP) workshop on Industrial Statistics was conducted at the premises of Sterlite Copper company during 22-23 July 2000. About 23 employees of the company participated in the workshop. The topics covered include Sampling and Statistical Quality Control techniques. Basics of statistics along with a large number of case studies in the afore-mentioned areas were discussed during two days.
8. Served as one of the resource persons for a workshop on "Design of Experiments" conducted for a group of scientists from Onida Research Center in April 2004.
9. Served as one of the resource persons for a SAS Workshop held at Department of Statistics, University of Pune during October 1-2, 2004.
10. Conducted a two-day in-house CEP workshop on "Statistical Process Control- Basic Awareness Program" for Crompton Greaves during December 21-22, 2004.

11. Conducted a one-day workshop on "Analytics for Marketing Intelligence" for a group of employees of Gillette Management Inc. on 14th May 2005 at Middlesex, London.
12. Served as one of the resource persons to take part in the Third Mathematics in Industry Study Group meeting held from 23 January to 27 January, 2006 at the University of the Witwatersrand, Johannesburg, South Africa.
13. CEP course done with Prof. P.P. Date (Mechanical Engineering) for Ordnance Factory, Ministry of Defence, Govt. of India, Ambernath. Gave five two and a half hour talks, spread over May and June 2010, on Acceptance Sampling Plans.
14. CEP In-house course for Edelweiss Securities Limited, Mumbai Conducted a two day workshop on 3rd and 10th July 2010 from 9:30 am till 6:00 pm. The workshop topic was Time Series Modeling.
15. Organized a Workshop on Reliability Theory & Survival Analysis during 25-27 November, 2010. The number of participants who attended this workshop was 55 and they essentially comprised of faculty members and research scholars from institutions/universities such as ISI (Kolkata, Delhi), IIT (Bombay, Kanpur, Guwahati), Delhi, Pune, Panjab, CUSAT (Cochin University of Science & Technology), Central University of Hyderabad etc. NBHM provided financial support for this workshop.

II. Participation in Industry-Related Workshops:

1. Delivered ONE lecture on Basic Statistical Theory in the Workshop entitled DOING STATISTICS WITH QUALITATIVE DATA held at Indian Institute of Technology, Bombay during December 1-2, 1995.
2. Delivered ONE lecture in a Two-day seminar on RELIABILITY IN ELECTRONICS AND COMPUTER HARDWARE at Institution of Engineers, Mumbai during March 14-15, 1997.
3. Delivered TWO lectures in a CEP course on DESIGN FOR RELIABILITY held at IIT Bombay during September 9-11, 1997.
4. Delivered ONE lecture in an In-house course on DESIGN FOR RELIABILITY held at Mahindra & Mahindra Ltd. during 1st week of October 1997.

5. A two-day in-house CEP workshop on Basic Reliability Theory was conducted at the premises of Sataym Computers, Hyderabad during 18-19 October, 2002. About 12 employees of the company participated in the workshop. The topics covered included basic reliability theory techniques along with a large number of case studies in this area were discussed during two days.

Invited Talks:

1. Presented a paper entitled "Saddle Point Approximation for the Density of Ratio of two statistics" in the Eastern Regional Meeting of IMS held at Virginia Polytechnic Institute, Blacksburg, U.S.A. in 1987.
2. Presented a paper entitled "Preservation of Certain Dependent Structures under Homogeneous Poisson Shock Models" in The Indian Science Congress held at University of Delhi, New Delhi in January 1997.
3. Gave THREE invited talks on "Optimal Reliability Test Plans" at Department of Statistics, Shivaji University, Kolhapur during June 1999.
4. Presented a paper entitled "Reliability Test Plans for Series Systems with Discrete Data" in a National Seminar of Reliability Analysis and Engineering held at Vikram Sarabhai Space Centre, Trivandrum in December 1999.
5. Gave an invited talk entitled "Identification of Successful Business Practices in Indian Exporting Firms" in the xx Annual Conference of Indian Society For Probability and Statistics & National Seminar On Industries Oriented Statistical Research held at Pt. Ravishankar Shukla University, Raipur during February 19-21, 2001.
6. Gave a three-hour invited talk on "Time Series Modeling" at the National Institute of Industrial Engineering (NITIE) on 14th March, 2001.
7. Presented a paper entitled "Reliability Test Plans for Systems with Time Dependent Failure Rates" in the ISPS Conference held at Panjab University, Chandigarh in December 2001.
8. Gave Four invited talks on "Time Series Modeling" at Department of Statistics, Shivaji University, Kolhapur during October 2002.

9. Gave an invited talk on "Reliability Test Plans" in a CEP course held at Institute of Armament Technology, Pune on 13th February, 2003.
10. Presented a paper entitled "Construction of Optimal Reliability Test Plans in the presence of Covariates- A parallel System" in an International Symposium on Emerging Strategies for Improving Productivity, Quality and Reliability held at Kolkata in December 2003.
11. Presented a paper entitled "Estimation and Construction of Bounds in Prototype Testing" in the Conference on Recent Developments in Statistics and Probability held at Pune in December 2003.
12. Presented a paper entitled "Construction of Optimal Reliability Test Plans in the presence of Covariates- A Series System" in the Indian Society for Probability & Statistics (ISPS) held at Guntur, Andhra Pradesh, in December 2004.
13. Presented a paper entitled " $100(1 - \alpha)\%$ Confidence Intervals for Parameters of Weibull Distribution Based on Samples of size one and $n (\geq 2)$ " in the Fifth International Triennial Calcutta Symposium held at Kolkata in December 2004.
14. Gave one invited talk at K.C. College on "Applications of Statistics in Industry" on 13th December, 2004.
15. Gave an invited talk on "Construction of Bounds in Prototype Testing" in the International Conference on Future of Statistical Theory, Practice and Education at Indian School of Business, Hyderabad, December 29, 2004- January 1, 2005.
16. Gave an invited talk on "Construction of Reliability test plans in the presence of Covariates" at Indian Statistical Institute, Kolkata on 28 June, 2005.
17. Gave an invited talk on "Case studies involving statistical applications in Indian industry" at the Third Mathematics in Industry Study Group Meeting held at University of Witwatersrand, Johannesburg, South Africa on 24th January 2006.
18. Gave an invited talk in National Conference on Statistical Modeling and Inference, at Department of Statistics, Shivaji University, Kolhapur, February 12-14, 2007.
19. International Conference on Mathematical Methods on Reliability (MMR 2007), Glasgow, Scotland, July 1--4, 2007. Gave a talk on "Reliability Test Plans for Systems with Dependent Components".

20. International Conference on Reliability, Safety and Quality Engineering, BARC, Mumbai, January 5--7, 2008. Gave a talk "An Overview of Construction of Optimal Reliability Test Plans".
21. International Conference on Present Practices and Future Trends in Quality and Reliability (ICONQR08), Indian Statistical Institute, Kolkata, Jan.22-25, 2008. Gave a talk on "Construction of Optimal Reliability Test Plans for Coherent Systems with Independent and Non-identical Components".
22. National Conference on Industrial Statistics, Dept. of Statistics, Univ. of Pune, August 4-6, 2008. Gave a talk on "Modeling of Panel Data using Hierarchical Bayesian Methodology and Metropolis-Hastings Algorithm".
23. National Seminar on Statistical Methods and Reliability Analysis, Cochin University of Science and Technology, Cochin, January 28--30, 2008. Gave a talk on Reliability Test Plans for k-out-of-n and Bridge systems.
24. A lecture entitled "Statistical Modeling Based on Brand Preference Data" at Fractal Analytics, Mumbai, August 7, 2008.
25. Gave invited talk in an International Conference on Recent Developments in Probability and Statistics held at Department of Statistics at University of Pune during December 21-23, 2009.
26. Gave three lectures on Survival Analysis in a short-term course entitled "Statistics & Pattern Recognition for Automated Diagnostics" held at School of Medical Science & Technology, IIT Kharagpur, during October 05-18, 2009.
27. Gave one invited talk at a National Seminar on Reliability Theory & Practice held at University of Calcutta on 28th and 29th January 2011. The title of my talk was "Extreme Testing Using Negative Binomial Data and related results".
28. Participated in a Refresher Course organized for college teachers by Department of Mathematics, University of Mumbai. Gave three one and a half hour talks on 7th, 9th and 11th March 2011 and the topic was Martingale Theory.
29. Gave one talk at Applied Statistics Division, ISI, Kolkata on 22nd March 2011. The title of my talk was "Estimation of Parameters of a Mixture Distribution using Quantile Functions".

Visits:

1. June-July 2001, Cytel Pvt. Ltd., Boston, USA.
2. 18th June-3rd July 2005, Indian Statistical Institute, Kolkata.
3. 1st September 2008 - 30th April 2009, Department of Statistics, University of Michigan, Ann Arbor, USA.
4. 21st March- 26th March 2011, Indian Statistical Institute, Kolkata.

Other Academic Activities:

Participation in Academic Workshops:

1. Delivered ONE Expository talk on Shock Models in the Workshop on Reliability Theory and Survival Analysis held at Department of Statistics, University of Pune in 1992.
2. Presented a paper entitled "Unimodality and Coherent Structures" in the Workshop on Reliability Theory and Survival Analysis held at Indian Statistical Institute, Calcutta in February 1994.
3. Delivered FOUR lectures on the basics of Markov Chains in One-week Workshop held at Department of Mathematics, IIT Bombay during November 1994.
4. Assisted in conducting tutorials based on Probability Theory at Mathematics Training and Talents Search Program held at IIT Bombay during May-June 1995.
5. Delivered FOUR lectures on the basics of Non parametric theory in One-week Workshop held at Department of Mathematics, IIT Bombay during November 1996.
6. Delivered FOUR lectures on the basics of Non parametric in One-week Workshop held at Department of Mathematics, IIT Bombay during November 1997.
7. Presented a Paper entitled "Reliability Test Plan for series systems with components having stochastic failure rates" in the Workshop on Reliability Theory and Survival Analysis held at IIT Bombay during November 1998.

8. Delivered SIX lectures on the basics of Discrete Probability in One-week Workshop held at Department of Mathematics, IIT Bombay during November 1998.
9. Delivered ONE lecture on Applications of Statistics at K. J. Somaiya College, Mumbai.
10. Delivered SIX lectures on the basics of Discrete Probability in One-week Workshop held at Department of Mathematics, IIT Bombay during November 1999.
11. Delivered EIGHT lectures on Nonparametric Statistical Techniques in One-Week Workshop held at Department of Mathematics, IIT Bombay during 25-30 December, 2000.
12. Gave two one and half hour talks on Logistic Regression and its Applications in refreshers course held at Dept of Statistics, Mumbai University in October 2001.
13. Delivered FOUR lectures on Nonparametric Statistical Techniques in One-Week Workshop held at Department of Mathematics, IIT Bombay during 19-25 October, 2002.
14. Delivered FOUR lectures on "Sample Size Methodology" in One-Week Workshop held at Department of Mathematics, IIT Bombay during 11-16 October, 2003.
15. Delivered Two one and half talks on "Two Case Studies in Industrial Statistic" in a Refresher Course held at Ahmednagar during 29th October-18th November, 2003.
16. Delivered FOUR talks on "Theory of Martingales" in Dept. of Mathematics University of Mumbai, Kalina, Mumbai during 6th February-10th March, 2004.
17. Delivered a talk on "Statistical Techniques for Pattern Recognition" at Conceicao Rodrigues College of Engineering, 16th February-20th March, 2004.
18. Delivered 8 lectures on "Sample Size Methodology" in the DST sponsored Workshop during November 2-9, 2004.
19. Gave 4 talks at Kendriya Vidyalaya Teachers' Training Program on "Basic Statistics" during 20th-21st May, 2005.

20. Delivered 6 lectures on "Probability Theory" in the DST sponsored Workshop organized at Department of Mathematics, IIT Bombay during December 24-26, 2005.

Administrative Duties Performed:

I have served on the following Departmental Committees number of times and each membership lasting for a period of three years:

(1) Departmental Policy Committee, (2) Department of Postgraduate Committee, (3) Departmental Undergraduate Committee, (4) Applied Statistics & Informatics M.Sc. program review committee, (5) Secretary of Faculty meetings, (6) Faculty Advisor for M.Sc. students, (7) Placement Coordinator, (8) Time Table Committee.

At the Institute level, I have served on (1) Committee which looks into promotion for non-teaching staff, (2) Institute Colloquium Committee (as Convener).

I was a member of Board of Studies in Statistics of University of Mumbai for five years.
