

CURRICULUM VITAE



Dr. Sandesh Shrikant Kurade (M.Sc., M.Phil., Ph.D., NET)

Head of the Department of Statistics

DOB: February 10, 1987

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Basic Details

- Sex - Male
- Citizen - Indian
- Languages known – English, Marathi and Hindi
- Marital Status - Married
- Educational Details -

Degree	University / Institute	Subject	Year
B.Sc.	Shivaji University, Kolhapur	Statistics	2008
M.Sc.	Savitribai Phule Pune University, Pune	Statistics	2010
M.Phil.	Savitribai Phule Pune University, Pune	Statistics	2016
Ph.D.	Savitribai Phule Pune University, Pune	Statistics	2021
NET	CSIR-UGC	Mathematical Sciences	2010

Title of M.Phil. Thesis -

- Multi-Objective Optimization for Supply Chain Models Using Genetic Algorithm

Title of Ph.D. Thesis -

- A Study on Non-Deterministic Supply Chain Models Using Evolutionary Algorithm

Ph.D. Supervisor -

- Dr. R. V. Latpate

Teaching Experience -

Duration	Institute	Designation	Nature of work
Nov. 2011 - today	MES Abasaheb Garware College (Autonomous), Karve Road, Pune 411004, India	Assistant Professor	Teaching

Research Publications - Published – 10

(7 international journals + 3 national journals)

Citation Indices -

Citations : 71, h-index: 4, i10 index: 3

Books Published - 2

1. Elementary Quantitative Techniques published by Nirali Prakashan in year 2019 (1st edition) with ISBN number – 978-93-88293-80-8
2. Reliability Theory and Survival Analysis published by Nirali Prakashan in year 2023 (2nd Ed.) with ISBN number – 978-93-54515-36-1

Book Chapters –

- Published a book chapter at international journal entitled “Probabilistic Supply Chain Models with Partial Backlogging for Deteriorating Items” in edited book entitled Applied Statistical Methods Editors – Hanagal, Latpate, and Chandra. Springer Singapore, 2022 (ISSN No.- 2194-1009).

Awards –

1. Received **Dr. A. M. Mathai Cash Prize award** in National Webinar on “Awareness of Statistical Software’s” in conjunction with the annual academic competitions of ISPS from 13-14th March 2021 for presenting a research paper entitled, “*Fuzzy NSGA for Multi-Objective Transportation Model at Different Pareto Fronts*” in best research papers presentation.
2. Best research paper award for the paper entitled “An evolutionary based optimization for price varying demand inventory model with linear holding cost” in national conference (September 2021)
3. Prof. T.S.K. Moothathu Young Statistician Award during 8th international conference on Statistics organized by International Statistics Fraternity (ISF), School of Physical and Mathematical Sciences and Department of Statistics, University of Kerala, Trivandrum (December 2022)

Design of new curricula and courses –

- Design and developed new curricula and courses for FYBSc, SYBSc and TYBSc Statistics courses for the college, Pune 411004

Profile -

1. BOS chairman of Statistics subject at MES Abasaheb Garware College (Autonomous), Pune since 2022
2. Elected as BOS member in Statistics for SPPU from HOD panel for the duration 2023 to 2028.
3. Member of academic council at MES Abasaheb Garware College (Autonomous), Pune

4. Nominated as a subject expert for BOS in Statistics from outside the parent university at M.J. College (Autonomous), Jalgaon for duration 2024 to 2027
5. Subject expert for CHB Walk-in-interview process of various affiliated colleges of SPPU
6. Subject expert for selection interview process of SPPU
7. Member of LIC committee appointed by SPPU for sanctioning the additional division of FYBSc Computer Science at Dada Patil Rajale College, Pathardi, Ahmednagar
8. Senior and junior supervisor at SPPU and college exams
9. Examiner for M.Sc Statistics course at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Suryadatta College of Management and Dr. D. Y. Patil College, Akurdi.
10. Organized field visits, study tours and guest lectures for students
11. In charge of various college committees such as Science Forum & Students Health Scheme.
12. Presently working as an Assistant Professor and Head of the Department of Statistics with MES Abasaheb Garware College (Autonomous), Pune.
13. Knowledge of Statistical inference, Reliability, Survival Analysis, Censoring Schemes, Distribution Theory, Classical inference, and Nonparametric Inference.
14. Expertise in application of various Statistical Packages R, SPSS, MATLAB, MINITAB & PYTHON for research and analysis.
15. Organized workshops and national conference for generating awareness of the Statistical Computing tools among research students.
16. Attended and completed 1 orientation, 3 refresher, 5 FDP and 1 instructional school (for teachers on “Asymptotic Theory of Statistical Inference”) courses.
17. Received recognition as a Post-Graduate teacher (By Papers) under the faculty of Science and technology in the subject Statistics from 04/09/19 from SPPU, Pune.
18. Worked as Presiding Officer during election for Maharashtra state elections.
19. Organizing committee member of Two days International Conference on Dr. B.R. Ambedkar’s Economic and Social Thoughts and Their Contemporary Relevance at MES Abasaheb Garware College, Pune from 4-5 March 2016.

Recent Research –

Economic order quantity (EOQ) inventory models, Genetic algorithm, Data Envelopment Analysis (DEA) for bank sector data, Factor analysis of Beck depression inventory for assessing depression after pandemic, Principal component analysis of disparity variables.

Area of Research –

Inference in demand probability distributions, Operation Research, Multi-Objective Transportation Models, Inventory Management, Genetic Algorithm.

Courses Taught –

Descriptive Statistics, Probability Theory, Discrete Probability Distributions, Exact Sampling Distributions and Exact Tests, Sampling Methods, Theory of Estimation, Operation Research, Regression Analysis, Statistical computing using R Software, Testing of Hypothesis, Survival Analysis, Operation Management.

Professional Affiliation –

Life member of Indian Society for Probability and Statistics (ISPS)

Resource Person / Guest Lectures –

1. Delivered a guest lecture on topic “Statistics using R” for Statistics students at Shri. Chhatrapati Shivaji Mahavidyalaya Arts, Science and Commerce College, Ahmednagar. (December 2022)
2. Resource person in the BCUD, SPPU Sponsored State Level workshop entitle “Big Data and Data Analysis by SAS” (December 24-25, 2016)
3. Resource person on topic “Fundamentals of Biostatistics” workshop under Student Centric Courses of RUSA Grant at SP College (10/08/2024)

Computer Knowledge –

Statistical packages Used – SPSS, MINITAB, MATLAB, R, PYTHON

Platform Used – Windows

Referee work - Worked as a referee for the following journals:

1. IEEE Transactions on Intelligent Transportation Systems
2. OPSEARCH

Research Report –

Completed Minor Research Project (MRP): Title – A Study on Multi-Objective Supply Chain Models Using Genetic Algorithm as Co-investigator funded by internal quality assurance cell SPPU under faculty of Science from 2016 to 2018.

Presented a paper at Conferences / Seminars / Workshops:

International Conference – 9

National Conference – 3

Administrative Experiences –

1. Head of the department of Statistics, MES Abasaheb Garware College (Autonomous), Karve Road, Pune 411004, from 1st September 2016 to date.
2. BOS chairman of Statistics subject at the college since 2022
3. Elected as BOS member in Statistics for SPPU from HOD panel for the duration 2023 to 2028.
4. Member of academic council at the college since 2022.
5. Nominated as a subject expert for BOS in Statistics from outside the parent university at M.J. College (Autonomous), Jalgaon for duration 2024 to 2027
6. In charge and member of various college committees.

Names and Addresses of Reference –

1. Dr. Raosaheb Vikram Latpate
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2. Prof. Dr. David D. Hanagal

Department of Statistics and Centre for Advanced Research

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List of Research Publications in Peer Reviewed Journals –

1. Economic Order Quantity Inventory Model with Price Dependent Expected Demand under Probabilistic Deterioration and Shortages (Aligarh Journal of Statistics) (July 2024)
2. Multi-objective mixed mode sugarcane transportation model using fuzzy NSGA (OPSEARCH) (2024)
3. Green Reverse Supply Chain Models with Fuzzy Stochastic Re-manufacturing Capacity. (International Journal of Fuzzy Systems) (March 2024)
4. Cold supply chain inventory models for agricultural products with multi-stage stochastic deterioration rates. (Journal of Management Analytics) (July 2023)
5. Multi-objective multi-index transportation model for crude oil using fuzzy NSGA-II. (IEEE Transactions on Intelligent Transportation Systems) (February 2022)
6. COVID-19 performance index for spatial assessment of pandemic management in India. (Spatial Information Research) (February 2022)
7. An Evolutionary Based Optimization for Price Varying Demand Inventory Model with Linear Holding Cost. (Journal of Scientific Research) (November 2021)
8. Assessing mental health of general public in India during covid-19 pandemic. (Towards Excellence) (December 2021)
9. Demand and deterioration of items per unit time inventory models with shortages using genetic algorithm (Journal of Management Analytics) (October 2020)
10. Fuzzy MOGA for supply chain models with Pareto decision space at different α - cuts. (The International Journal of Advanced Manufacturing Technology) (September 2017)

Teacher Training Programs

1. Participated in the Instructional School for Teachers on "Asymptotic Theory of Statistical Inference" held at Department of Statistics, SPPU, Pune during 23 October to 4 November 2017.
2. Completed one week Pedagogical Training for Teachers on Tools for online teaching Learning and Evaluation from 1 July to 6 July 2020 organized by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded 431606.

Presented Research Paper -

Presented following research papers in International Conferences -

1. EOQ Models With Random Demand Using Genetic Algorithm in international conference on Theory and Applications of Statistics and Information Sciences (TASIS-2018) held in Dept. of Statistics, Bharathiar University, Coimbatore, Tamil Nadu during 5-7, January 2018.
2. Inventory model for Perishable Items with Demand per Unit Time under Shortages Using Binary Coded Genetic Algorithm in the international conference on Computer Age Statistics in the Era of Big Data and High Dimensional Data organized by the Department of Statistics, SPPU, Pune during 3-5 January 2019.
3. Partial Backlogging with Expected Demand Inventory Model using Evolutionary Optimization in the international conference organized by the Department of Statistics and Centre for advanced studies, SPPU, Pune in conjunction with 22nd Annual conference of the Society of Statistics, Computer and Applications during 2-4 January 2020.
4. Probabilistic Inventory Model for a Perishable Item with Time Dependent Linear Holding Cost in international virtual conference on Prof. C.R.Rao's school of thought on Statistical Sciences (ICON-CRRAO-STOSS-2020) (on the eve of Prof. C. R. Rao's birth centenary year) organized by Department of Statistics, Ramanujan School of Mathematical Sciences Pondicherry University (A Central University) and Department of Mathematics and Statis-

- tics Mrs. A.V.N. College Visakhapatnam during 21-22 and 28-29 November 2020.
5. Uniform demand with variable linear holding cost inventory model under partial backlogging in international conference (virtual mode) on emerging trends in Statistics and Data Science in conjunction with 40th annual convention of ISPS during 7-10 September 2021.
 6. Inventory model with price dependent uniform demand & probabilistic deterioration under shortages in the 4th international E-conference on Incipient Research in Information Technology, Commerce, Management and Linguistics-2021 during 17-18 September 2021.
 7. Price Sensitive Demand Inventory Model under Shortages in international conference on Advances in Statistical Methods and Applications (ICASMA-2022) organized by the Department of Statistics during 24-25 January 2022.
 8. Fuzzy Multi-Objective Genetic Algorithm for Production Distribution Problems in international conference on Celebrating Statistical Innovation and Impact in a World of Big and Small Data organized by the Department of Statistics and Centre of Advanced Studies, SPPU, Pune in conjunction with International Indian Statistical Association (IISA) during December 20-24, 2015.
 9. Multi-Objective Supply Chain Models with Distributor Storage and Carrier Delivery: Fuzzy NSGA Method in international conference on Celebrating Statistical Innovation and Impact in a World of Big and Small Data organized by the Department of Statistics and Centre of Advanced Studies, SPPU, Pune in conjunction with International Indian Statistical Association (IISA) during December 20-24, 2015.

Presented following research papers in National Conferences -

1. Deteriorating Items Inventory Model with Shortages using Evolutionary Optimization in national conference on Recent Advancements in Statistics and Their Applications to the Society during 17-18 January 2019.
2. An evolutionary based optimization for price varying demand inventory model with linear holding cost in one day national conference on Trends and Perspective in Statistics and Mathematics: A Multi-Disciplinary Approach held in online mode by Department of Statistics,

St. Xavier's College, Mumbai on 25 September 2021.

3. Optimization of Stochastic Demand and Exponential Deterioration type Inventory Model using Evolutionary Algorithm in national level online mode conference on Statistical Modelling and Inference organized by School of Computational Sciences, Department of Statistics, P.C. Jabin Science College (Autonomous) on 29 January 2022.

Workshops

1. Participate in the workshop on Training of Teachers (ToT) for Student Induction Programme (SIP) organized by University Grants Commission, Western Regional Office, Pune on 6-8 June 2019.
2. Completed online one week national level workshop on Interdisciplinary Research Methodology, ICT Application and Innovations in Teaching Learning Process organized by St. Francis De Sales College, Nagpur from June 8-12, 2020.
3. Attended national workshop on "Statistical computational techniques using PYTHON, R and SPSS" organized by School of Studies in Statistics, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh sponsored by public outreach Centre during 18-20 July 2020.
4. Attended international workshop on "Reliability Theory and Survival Analysis" at Dept. of Statistics, Cochin University of Science and Technology, Cochin, Kerala during 31st December - 2nd January 2014.
5. Attended international workshop on "Reliability theory and Survival analysis" at Dept. of Statistics, Savitribai Phule Pune University during November 3-5, 2016.
6. Attended state level workshop on "Revision of T.Y.B.Sc. Statistics syllabi", at S.P. College during November 20-21, 2014.
7. Attended state level workshop on "Reliability and Survival analysis" at Modern College, Shivajinagar on 9th Jan 2016.
8. Attended state level workshop on "Business Analytics and Statistics" at Dept. of Statistics, Modern College of Arts, Science and Commerce, Shivajinagar from 19-20 December 2017.
9. Attended university level workshop on "Revised topics of S.Y.B. Sc Statistics syllabi" at

- MES Abasaheb Garware College during July 10-11, 2014.
10. Attended university level workshop on “Revised syllabus of T.Y.B.Sc Statistics (2015-16) Semester IV” at S.P. College on 11th Dec 2015.
 11. Attended university level workshop on “Revised syllabus of T.Y.B.Sc Statistics Semester III (2015-16)” at S.P. College, on 14th August 2015.
 12. Attended university level workshop on “Revision of F.Y.B.Sc Statistics/Statistical Technique Syllabi” at MES Abasaheb Garware College, on 27th February 2013.
 13. Attended university level workshop on “Restructuring Statistics syllabi of S.Y.B.Sc and S.Y.B.A. (CBCS Pattern), Review and discussion of F.Y.B.Sc., F.Y.B.A. and F.Y.B.Sc. (C.S.) (CBCS Pattern) ” at Poona College of Arts, Science and Commerce College, Camp, Pune - 1 on 8-9 January 2020.
 14. Attended two days state level workshop on Implementation of National Education Policy 2020 under Quality Improvement Program (QIP), Planning and Development section, SPPU, Pune at MES Abasaheb Garware College (Autonomous), Pune from March 1-2, 2023.
 15. Participated in one day workshop entitled Bootcamp on FYUP-NEP 2020 organized by Maharashtra Education Society on Wednesday 18 January 2023.
 16. Participated in national level online seminar on Research Methodology and SPSS held at Tuljaram Chaturchand College, Pune on June 8-9, 2020.

Dr. Kurade Sandesh Shrikant