

GAJENDRA K. VISHWAKARMA | M.Sc., UGC-NET, Ph.D. (Statistics),
FRSS, AFIAPS, MNASc, SIRE Fellow,
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Personal Detail:

Name	:	Gajendra Kumar Vishwakarma
Father's Name	:	Rameshwar Prasad
Passport No.	:	Z5273041
Address	:	Flat No. B041, Block No. B, New Type V Qtrs, IIT Campus, Dhanbad-826004, INDIA

Academics Degrees:

- **Ph.D. (Statistics)** in 2007 from School of Studies in Statistics, Vikram University, Ujjain, M.P., India.
Title of Ph.D. Thesis: "Estimation of Parameter(s) Using Auxiliary Information in Stratified Sampling"
- **M.Phil. (Statistics)** in 2004 from School of Studies in Statistics, Vikram University, Ujjain, M.P., India with first division
Title of M. Phil. Dissertation: "Estimation of Finite Population Mean with Auxiliary Information in Sample Surveys"
- **M.Sc. (Statistics with Computer Programming)** in 2001 from Department of Mathematical Sciences & Computer Applications, Bundelkhand University, Jhansi, U.P., India with first division.
- **B.Sc. (Mathematics, Physics, Chemistry)** in 1999 from Bipin Bihari (PG) College, Bundelkhand University, Jhansi, U.P., India with first division.
- **Intermediate (Maths Group)** in 1995 from Govt. Inter College Samthar Jhansi, Board of High School and Intermediate Education Uttar Pradesh with first division.

Employment Details:

1. **Associate Professor** (Level 13 A2; April 12, 2021–Till Date) in Department of Mathematics & Computing, Indian Institute of Technology (ISM) Dhanbad, India.
2. **Assistant Professor** (Level 13 A1; Jan 05, 2017– April 11, 2021) in Department of Mathematics & Computing, Indian Institute of Technology (ISM) Dhanbad, India.
3. **Assistant Professor** (Level 12; June 25, 2012 – Jan 04, 2017) in Department of Applied Mathematics, Indian Institute of Technology (ISM) Dhanbad, India.
4. **Visiting Scientist as Faculty** (June 15, 2011 – June 14, 2012) in Indian Statistical Institute (ISI), North-East Centre, Tezpur, Assam, India.
5. **Associate Bio-stat & Report as Project Manager for Astra Zeneca project** (Sep 15, 2010 – June 9, 2011) in Cognizant Technology Solutions, Mumbai, India.
6. **Associate Scientist as Head of the Dept.; Biostatistics and Clinical Data Management** (July 23, 2007 – Aug 5, 2010) in Lupin Limited (Research Park), Pune, India.

Special Inviting Positions:

1. **Visiting Professor** (Monsoon Semester 2022-2023 under SIRE Fellowship) in the Institute of Actuarial Science and Data Analytics, UCSI University, Kuala Lumpur, Malaysia under SIRE Fellowship.
2. **Visiting Faculty** (April, 13-21, 2013) for “MCS-202: Statistical Methods & Applications”, in the Department of Computer Science, Assam University, Silchar, Assam, India.

Specializations: Statistics**Research Interest:**

- Sampling Theory & Techniques
- Regression Modelling & Analysis
- Data Imputation Models
- Bayesian Statistics
- Joint Modeling & Longitudinal Data Analysis

Citation: 1358**h-index:** 18**i-10-index:** 42**Patent:** 02**R-Package:** 06**Courses Taught:**

Sl. No	Course Name	Course Code	Level(UG/PG)	Sole Instructor or with others	Semester & Frequency
1	Mathematics-I	AMC 02101	Preparatory	Part II with Others	Monsoon; 03
2	Probability and Statistics	AMC 31101 MCC505	M.Sc./M.Tech.	Sole Instructor	Monsoon; 12
3	Statistics Lab	AMC 31201/ 13201	M.Sc./M.Tech.	Sole Instructor	Monsoon; 08
4	Advanced Sampling Theory-I	MCD554/514	JRF/M.Sc.	Sole Instructor	Monsoon; 04
5	Applied Statistics	AMC 51151	M.Tech.(Comm) & Foreigner	Part II with Others	Monsoon; 08 Summer; 03
6	Statistical Methods	AMR 14101/ NMCE 101	B.Tech.(Comm)	Part II with Others	Winter; 13 Summer; 04
7	Statistical Inference Lab	AMC32202	M.Sc.	Sole Instructor	Winter; 02
8	Statistical Inference	AMC 32102/ 14102	M.Sc./M.Tech.	Sole Instructor	Summer; 01
9	Biostatistics	MCD524	M.Sc./M.Tech.	Sole Instructor	Monsoon; 03

Honors and Awards:

- **2024: Prof. K. Srinivasa Rao Best Researcher Award** of Indian Society for Probability and Statistics, India conferred in 44th Annual Convention of ISPS at Kurukshetra University, Kurukshetra, India.
- **2024: Professor B.G. Prasad Award** of Indian Society for Medical Statistics, India conferred in 40th Annual Conference of the Indian Society for Medical Statistics (ISMSCON-2024) held at BHU Varanasi during November 21-22, 2024.
- **2024: Travel Award;** 32nd International Biometric Conference 2024 from International Biometric Society, USA.

- **2024: International Travel Support;** 32nd International Biometric Conference 2024 from Anusandhan National Research Foundation, Department of Science and Technology, Govt of India.
- **2024: Inder Mohan Thapar Research (IMTR) Award** 2023 (to my scholar Mr. Souvik on joint work) from Indian Institute of Technology (ISM) Dhanbad, INDIA.
- **2024: Rashtriya Gaurav Award** of Anti-Corruption Movement Bharat (A social organization registered with Govt of India NITI Aayog) on 14th July 2024 at Applied Science Auditorium, Chaudhary Charan Singh University, Meerut, India.
- **2023: Excellent Teacher Award** of World Leadership Academy, India conferred in 2nd World Leadership Convention “World is One” held at KIIT Bhubaneswar on 25th February, 2023.
- **2022: Smt. Suraj Kali Jain Award** of Indian Society for Medical Statistics, India conferred in 40th Annual Conference of the Indian Society for Medical Statistics (ISMSCON-2022) held at KIMSDU Maharashtra during November 24-26, 2022.
- **2022: Research Excellence Award** of Anti-Corruption Movement Bharat (A social organization registered with Govt of India NITI Aayog) on 19th June 2022 at Applied Science Auditorium, Chaudhary Charan Singh University, Meerut, India.
- **2022: SIRE (BOYSCAST) Fellowship** of Science and Engineering Research Board, Department of Science and Technology, Government of India.
- **2022: Travel Award;** 31st International Biometric Conference 2022 from International Biometric Society, USA.
- **2021: Professor P.V. Sukhatme Award** of Indian Society for Medical Statistics, India conferred in 39th Annual Conference of the Indian Society for Medical Statistics (ISMSCON-2021) held at RIMS Ranchi during December 09-11, 2021.
- **2021: Elected Membership** of the National Academy of Sciences India, Ministry of Science and Technology, Government of India.
- **2020: Certificate of Appreciation** for serving as organizer during the training workshop on “Data Science for Official Statistics Using R Software” organized by Young Statisticians-International Statistical Institute, Netherlands during October 28-29, 2020.
- **2020: Certificate of Appreciation** for being a moderator on Talk with John Bailer organized by Young Statisticians-International Statistical Institute, Netherlands during May 26, 2020.
- **2019: Associate Fellow;** International Academy of Physical Sciences, India.
- **2019: Travel Award;** 62nd World Statistics Congresses from World Bank Trust Fund for Statistical Capacity Building, USA.
- **2019: Travel Award;** 7th Channel Network Conference 2019 from International Biometric Society, USA.
- **2018: Best Researcher Award** of International Organization of Scientific Research and Development, India
- **2017: International Travel Support;** 61st World Statistics Congress 2017 from Science and Engineering Research Board, Department of Science and Technology, Govt of India.
- **2017: Travel Award;** 2nd ISI-RSC 2017 from World Bank Trust Fund for Statistical Capacity Building, USA.
- **2016: Fellow;** Royal Statistical Society, London, UK.
- **2015: Young Scientist Award;** Center for Advanced Research and Design, India.
- **2014: Travel Award;** 1st ISI-RSC 2014 from World Bank Trust Fund for Statistical Capacity Building, USA.
- **2012: Fellow;** Society of Earth Scientists, Lucknow, India.
- **2010: Scholarship;** 10th SARSM of the IEA- 2010, Colombo, Sri Lanka.
- **2009: UGC NET Exemption-Assistant Professor;** University Grant Commission, India.

- **2008: UGC NET-Assistant Professor;** University Grant Commission, India.
- **2007: Elected Member;** International Statistical Institute (ISI), Netherlands.

Patents:

1. Machine learning tools for selecting feature from high dimensional data, *Bhattacharjee, A., and Vishwakarma, G.K. The Patent Office Journal*, No. 45/2023 Dated 10/11/2023, 76581. <https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal>
2. Missing data integration using a combination of mean score and inverse probability weighted approaches and multiple imputation, *Vishwakarma, G.K. and Bhattacharjee, The Patent Office Journal*, No. 45/2023 Dated 10/11/2023, 76580. <https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal>

Packages:

1. *Bhattacharjee, A., Vishwakarma, G.K. and Kumar, N. (2024). MIGEE: Impute Missing Values and Fitting Linear Mixed Effect Model. R package, version 0.1.0, <https://CRAN.R-project.org/package=MIGEE>*
2. *Bhattacharjee, A., Rajbongshi, B. and Vishwakarma, G.K., (2024). dscoreMSM: Survival Proximity Score Matching in Multi-State Survival Model. R package version 0.1.0, <https://CRAN.R-project.org/package=dscoreMSM>*
3. *Bhattacharjee, A., Rajbongshi, B.K. and Vishwakarma, G.K. (2023). MIIPW: IPW and Mean Score Methods for Time-Course Missing Data. R package, version 0.1.0, <https://cran.r-project.org/package=MIIPW>*
4. *Bhattacharjee, A., Rajbongshi, B.K. and Vishwakarma, G.K. (2022). jmBIG: Joint Longitudinal and Survival Model for Big Data. R package, version 0.1.0, <https://CRAN.R-project.org/package=jmBIG>*
5. *Bhattacharjee, A., Vishwakarma, G.K. and Banerjee, S. (2022). highMLR: Feature Selection for High Dimensional Survival Data. R package, version 0.1.1, <https://CRAN.R-project.org/package=highMLR>*
6. *Bhattacharjee, A., Vishwakarma, G.K. and Kumari, P. (2021). afthd: Accelerated Failure Time for High Dimensional Data with MCMC. R package, version 1.1.0, <https://cran.r-project.org/package=afthd>*

Details of Ph.D. Students who have done/doing research work under my supervision:

Sl. No	Name of the Ph.D. Student	Full Time/Part Time	Department	Registration No	Month & Year	Status
1	Manish Kumar	Full Time	Applied Mathematics	2012/DR/0159/ App. Math/Acad	Aug, 2012	Awarded (Mar 2016)
	Title of the Thesis: <i>On the Improvement of Estimation Procedures in Sample Surveys</i>					
	Placed as Assistant Professor: Department of Agricultural Statistics, Acharya Narendra Deva University of Agric & Tech. Faizabad- 224229, India					
2	Chinmoy Paul	Full Time	Applied Mathematics	2013/DR/0185/ App. Math/Acad	July, 2013	Awarded (Oct 2017)
	Title of the Thesis: <i>Estimation Procedures for Regression and Time Series Models Using Neural Network</i>					
	Placed as Assistant Professor: Department of Statistics Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Karimganj – 788723, India					
3	Venkataramana, B.	Full Time (Co-Guide)	Applied Mathematics	2013/DR/0122/ App. Math/Acad	Feb, 2013	Awarded (Jan 2018)

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	Title of the Thesis: <i>Evaluation of Network Reliability Using Optimal Reduced Ordered Binary Decision Diagrams</i>					
	Placed as Assistant Professor: Department of Mathematics, Vellore Institute of Technology, Vellore-632014, India					
4	Sayed Mohammed Zeeshan	Full Time	Applied Mathematics	2013/DR/0177/ App. Math/Acad	July, 2013	Awarded (June 2019)
	Title of the Thesis: <i>Some Efficient Estimation Procedures for Population Mean in Sample Surveys</i>					
	Placed as Assistant Professor: School of Advanced Sciences & Languages Vellore Institute of Technology University, Bhopal-466114, India					
5	Amod Kumar	Full Time (Co-Guide)	Mathematics & Computing	2015/DR/0019/ App. Math/Acad	Feb, 2015	Awarded (Jun 2020)
	Title of the Thesis: <i>Effective Estimation Procedures for Population Parameters of Sensitive Characteristics Using Randomized Response Techniques.</i>					
	Placed as Assistant Professor: Department of Biostatistics, Faculty of Medical Science, Santosh University, Ghaziabad -201009, India					
6	Neha Singh	Full Time	Mathematics & Computing	2015/DR/0132/ App. Math/Acad	July, 2015	Awarded (Feb 2021)
	Title of the Thesis: <i>Estimation Procedures for Population Parameters using Auxiliary Information in Presence of Measurement Error</i>					
	Placed as Assistant Professor: Department of Mathematics Amrita Vishwa Vidyapeetham Coimbatore, Tamil Nadu, India					
7	Abin Thomas	Part Time (Jointly)	Mathematics & Computing	2015/DR/1166/ App. Math/Acad	Oct, 2015	Awarded (Mar 2021)
	Title of the Thesis: <i>Modeling of Gene Expression for Cancer Biomarkers using Bayesian Framework</i>					
	Placed as Assistant Professor: Centre for Trials Research Cardiff University Cardiff CF10 3AT, United Kingdom					
8	Jesna Jose	Part Time (Jointly)	Mathematics & Computing	2015/DR/1165/ App. Math/Acad	Oct, 2015	Awarded (Oct 2021)
	Title of the Thesis: <i>Modelling of Missing Observations in Longitudinal Measurements</i>					
	Placed as Research Associate: Department of Biostatistics & Bioinformatics King Abdullah International Medical Research Centre, Riyadh 11481, Saudi Arabia					
9	Shubham Gupta	Full/Part Time	Mathematics & Computing	2015/DR/0121/ App. Math/Acad	July, 2015	Awarded June 2022
	Title of the Thesis: <i>Estimation of Parameters Using Shrinkage Technique with Prior Information</i>					
	Placed as Assistant Statistical Officer, Planning Commission Delhi Government, New Delhi					
10	Souvik Banerjee	Full Time	Mathematics & Computing	2017/DR/0488/ App. Math/Acad	Aug, 2017	Awarded Oct 2022
	Title of the Thesis: <i>Modelling and Classification of Longitudinal Covariates with Missing Observations</i>					
	Placed as Senior Biostatistician: Department of Biostatistics Novartis Healthcare Pvt Ltd, Madhapur, Hyderabad- 500081, India					
11	Abhishek Singh	Full Time	Mathematics & Computing	2017/DR/0566/ App. Math/Acad	Aug, 2017	Awarded Nov 2022
	Title of the Thesis: <i>Improved Estimation Procedures Under Ranked Set Sampling</i>					
	Placed as Assistant Professor: Department of Mathematics & Statistics					

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	MIT World Peace University Paud Road, Kothrud, Pune-411038, India					
12	Geshu Khare	Part Time	Environmental Science & Engg	2016DP0139/ ESE/Acad	Sep, 2016	Awarded Dec 2022
	Title of the Thesis: <i>An Investigation into the effects of microbially induced calcite precipitation on the mechanical stability of soils from Rohtang, Himachal Pradesh, India</i>					
	Placed as Research Associate: Microbiologist Varanasi					
13	Pragya Kumari	Full Time	Mathematics & Computing	2019/DR/0106/ App. Math/Acad	Aug, 2019	Submitted Mar 2025
	Title of the Thesis: <i>Bayesian Models and Classification of High Dimensional Gene Expression Data</i>					
	Senior Research Fellow: Department of Mathematics & Computing, IIT Dhanbad					
14	Abhipsa Tripathy	Full Time	Mathematics & Computing	21DR0005 M&C/Acad	Aug, 2021	Ongoing
	Title of the Thesis: <i>Modelling and Implementation of Time to Death Risk Prediction</i>					
	Senior Research Fellow: Department of Mathematics & Computing, IIT Dhanbad					
15	Bhriku K. Rajbongshi	Full Time (Jointly)	Mathematics & Computing	21DR0040 M&C/Acad	Aug, 2021	Ongoing
	Title of the Thesis: <i>Joint Modelling of Longitudinal and Time-to-event Data with Multiple Imputation</i>					
	Senior Research Fellow: Department of Mathematics & Computing, IIT Dhanbad					
16	N. Kumar	Full Time (Jointly)	Mathematics & Computing	23DR0092 M&C/Acad	July, 2023	Ongoing
	Title of the Thesis: <i>Feature Selection and Parameter Estimation of Joint Models for Longitudinal and Survival Data with Missing Observations</i>					
	Junior Research Fellow: Department of Mathematics & Computing, IIT Dhanbad					
17	T. Majumdar	Full Time	Mathematics & Computing	23DR0334 M&C/Acad	Dec, 2023	Ongoing
	Title of the Thesis: <i>Estimation Strategy of Model Parameters for Irregular Longitudinal Observations</i>					
	Junior Research Fellow: Department of Mathematics & Computing, IIT Dhanbad					

Details of M.Phil Students who have done dissertation work under my supervision:

Sl. No	Name of the Student	Full Time/ Part Time	Department	Registration No	Month & Year	Status
1	Birendra Murmu	Full Time	Applied Mathematics	2013/MP/0037/ Math/Acad	Aug, 2013	Awarded (May 2014)
	Title of the Dissertation: <i>Bootstrap Approach and their Applications to Inferential Statistics</i>					

Details of Post-Graduate Students who have done project work under my supervision:

Sl. No	Name of the Student & Enrollment Number	Programme	Department	Academic Session	Status
1	Soumya Mondal (2011MS0087)	M. Sc. (M&C)	Applied Mathematics	2012-2013	Awarded (May 2013)
2	Aungsuman Singha (2011MS0074)				
Title of the Project: <i>Study of Ratio and Product Estimators in Sample Surveys</i>					
3	Vivek Terapalli (2011JE0320)	Int. M.Tech (M&C)	Applied Mathematics	2012-2016	Awarded (May 2017)

	Title of the Project: <i>A Study of Ratio and Product Estimators</i>				
4	Sangeeta Kumari (2012MS0032)	M. Sc. (M&C)	Applied Mathematics	2013-2014	Awarded (May 2014)
5	Babli Kumari (2012MS0037)				
	Title of the Project: <i>Application of Neural Network in Data Analysis</i>				
6	Arpita Jena (2009JE0401)	Int. M.Tech (M&C)	Applied Mathematics	2013-2014	Awarded (May 2014)
	Title of the Project: <i>Applications of Regression Analysis</i>				
7	Nikhil Kumar Sagar (2012JE0210)	Int. M.Tech (M&C)	Applied Mathematics	2013-2017	Awarded (May 2017)
	Title of the Project: <i>Relevance of Black scholes Model in Nifty</i>				
8	Tania Das (2013MS0075)	M.Sc. (M&C)	Applied Mathematics	2014-2015	Awarded (May 2015)
9	Ram Govind Sen (2013MS0031)				
	Title of the Project: <i>Ratio Estimation Under Ranked Set Sampling</i>				
10	Bhanu Pratap Rajak (15MS000257)	M.Sc. (M&C)	Applied Mathematics	2016-2017	Awarded (May 2017)
11	Moinuddin Ansari (15MS000194)				
	Title of the Project: <i>Maximum Likelihood Estimate by Graphical Method</i>				
12	Deepa Gupta (16MS000336)	M.Sc. (M&C)	Applied Mathematics	2017-2018	Awarded (May 2018)
13	Priyanka Verma (16MS000344)				
	Title of the Project: <i>Missing Data Imputation Using R</i>				
14	Amrit Raj (2013JE0942)	Int. M.Tech (M&C)	Applied Mathematics	2014-2018	Awarded (May 2018)
	Title of the Project: <i>Single Word Speech Recognition Using Convolution Neural Network</i>				
15	Arvind Rajpurohit (2013JE0772)	Int. M.Tech (M&C)	Applied Mathematics	2014-2018	Awarded (May 2018)
	Title of the Project: <i>Selenium Automation Testing Framework Using Data Driven Approach</i>				
16	Pragya Kumari (17MS000426)	M.Sc. (M&C)	Applied Mathematics	2018-2019	Awarded (May 2019)
17	Anindita Malik (17MS000452)				
	Title of the Project: <i>Bootstrapping Regression Model</i>				
18	Aliseri Goutham Kumar (2014JE00600)	Int. M.Tech (M&C)	Applied Mathematics	2015-2019	Awarded (May 2019)
	Title of the Project: <i>A Convolution Neural Network Based Approach for Malaria Detection</i>				
19	Shubham Rajodiya (2014JE00692)	Int. M.Tech (M&C)	Applied Mathematics	2015-2019	Awarded (May 2019)
	Title of the Project: <i>Information Extraction From Legal Documents</i>				
20	Ajay Kumar (2014JE00746)	Int. M.Tech (M&C)	Applied Mathematics	2015-2019	Awarded (May 2019)
	Title of the Project: <i>Analysis of Trend Following System</i>				
21	Ujjawal Boshnoi (2014JE00752)	Int. M.Tech (M&C)	Applied Mathematics	2015-2019	Awarded (May 2019)
	Title of the Project: <i>BigData Video Through Efficient Dynamic Frame Aggregation Over WLAN</i>				

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22	Anugu Yash (15JE001733)	Int. M.Tech (M&C)	Mathematics & Computing	2016-2020	Awarded (May 2020)
Title of the Project: <i>Component Separation of Cosmic Microwave Background Maps</i>					
23	Jay Prakash (18MS0100)	M.Sc. (M&C)	Mathematics & Computing	2019-2020	Awarded (May 2020)
Title of the Project: <i>Randomized Response Technique</i>					
24	Nishit Paliwal (19MS0066)	M.Sc. (M&C)	Mathematics & Computing	2020-2021	Awarded (May 2021)
25	Rupesh Kumar (19MS0092)				
Title of the Project: <i>SIR Model with Homotopy to Predict Corona Cases</i>					
26	Avik Dey (20mt0098)	M.Tech (Data Analytics)	Mathematics & Computing	2020-2022	Awarded (May 2022)
Title of the Project: <i>Recommendation System</i>					
27	Newton Mallick (17je003104)	Int. M.Tech (M&C)	Mathematics & Computing	2018-2022	Awarded (May 2022)
Title of the Project: <i>Applying optimal theory and deep learning knowledge for spacecraft landing problem</i>					
28	Suresh Baitha (20MS0144)	M.Sc. (M&C)	Mathematics & Computing	2020-2022	Awarded (May 2022)
Title of the Project: <i>Impact of measurement error using scrambled response</i>					
29	Surya Yarrapothu (22mt0398)	M.Tech (Data Analytics)	Mathematics & Computing	2023-2024	Awarded (May 2024)
Title of the Project: <i>A comparison between LSTM and GRU for stock price forecasting</i>					

Details of Short-Term Courses/Consultancy programme:

Sl. No	Title of Course/ Workshop	Funding Agency	Role as CI/Co-CI	Duration	Amount (INR)	Status
1	Statistical Modeling Through Simulation in R	MMTTP, UGC GoI	CI	06 Days Sep 22-27, 2025	4,65,300/-	To be Successfully Completed
2	Research, Writing and Analysis	MMTTP, UGC GoI	CI	12 Days Nov 11-22, 2024	2,70,600/-	Successfully Completed
3	GIAN Course on Option Pricing: A Computational Framework	MHRD, Govt. of India	CI 191058K01	6 Days Dec 18-23, 2023	6,58,000/-	Successfully Completed
4	GIAN Course on Big Data Analysis through Copula	MHRD, Govt. of India	CI 191058K02	6 Days Dec 11-16, 2023	6,58,000/-	Successfully Completed
5	International Conference on Recent Trends in Applied Sciences and Computing Engineering	Self Financed	CI	3 Days Dec 17-19, 2021	38,000/-	Successfully Completed
6	National Workshop on Statistical Computing with R	Self Financed	CI	2 Days Nov 02-03, 2019	7,500.00/-	Successfully Completed
7	GIAN Course on Derivative Pricing	MHRD, Govt. of India	CI 171058K02	7 Days April 24-30, 2019	5,44,000/-	Successfully Completed
8	Applications of Statistics in Advanced Research	Self Financed	CI CONS/3375/ 2016-2017	5 Days Nov 24-28, 2016	1,82,000/-	Successfully Completed

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9	Applications of Statistical Tools in Research & Data Analysis	Self Financed	Co-CI CONS/3109/ 2015-2016	4 Days Feb 08-11, 2016	1,57,000/-	Successfully Completed
10	Research Scholar's Meet 2014	Self Financed	CI	1 Day Feb 28, 2014	86,000/-	Successfully Completed

Details of R&D Projects:

Sl. No	Title of Project	Funding Agency	Role as PI/ Co-PI	Ref. No.	Duration	Amount (INR)	Status
1	Joint modelling of longitudinal and time-to-event data with multiple imputation	CSIR, Govt of India	PI	25(0307)/20/EMR-II	3 Years (w.e.f. 01 Mar 2021)	20,37,760/- Major	Completed (2024)
2	Machine Learning Algorithms and Models for Anomaly Detection in High-Dimensional Longitudinal Data	SERB, DST, Govt of India	PI	SIR/2022/000769	04 Months (w.e.f. 19 Dec 2022)	11,14,752/- Major	Completed (2023)
3	Development, Automation, and Field Trial of a Versatile Multi-Temporal InSAR (MT-InSAR) Processing Tool for in-depth monitoring of Land Surface Deformation in Mining Environment	TiH, TexMin Foundation, India	Co-PI	PSF-IH-1Y-005 (TexMin/Projects/2021/02)	1 Year (w.e.f. 15 May 2021)	10,000,00/- Major	Completed (2022)
4	Normal activity initiation by using artificial intelligence based technology to fight against COVID-19 in different hotspots of India	ICSSR, Govt of India	PD	COVID/307/27/2020-21/ICSSR	9 Months (w.e.f. 01 Mar 2021)	5,14,500/- Major	Completed (2021)
5	Bayesian Individual-level modeling of the spread of COVID-19 pandemic in presence of lockdown	SERB, DST, Govt of India	Co-PI	MSC/2020/000063	1 Year (w.e.f. 26 June 2020)	5,50,000/- Major	Completed (2021)
6	Efficient estimation procedures using imputation for missingness	TEQIP-III, IIT(ISM) Dhanbad	PI	MRP/2018/00011	2 Years (w.e.f. 15 Sep 2018)	2,00,000/- Minor	Completed (2020)
7	Joint modeling of event time and non-ignorable missing covariate data in survival and longitudinal analysis	SERB, DST, Govt of India	PI	EMR/2016/003305	3 Years (w.e.f. 27 March 2017)	15,68,600/- Major	Completed (2020)
8	A phase II/III, multi-center, placebo-controlled, double	DST Govt of India & Lupin	Co-PI	LRP/CTP/017/2011/II I/01	3 Years	Major	Completed (2010)

	blind, randomized, parallel group study to establish the efficacy of LLL-2011 administered as a 1% nasal spray in the preventive treatment of common migraine	Limited, India					
9	A phase IIb/III, multi-center, randomized, parallel group, controlled study to evaluate the efficacy and safety of 750 mg and 1000 mg of LLL-3348 of Lupin Limited in moderate to severe chronic stable plaque type of Psoriasis	DST Govt of India & Lupin Limited, India	Co-PI	LRP/CTP/019/3348 /III/01	3 Years	Major	Completed (2010)
10	A phase III, randomized, multi-centre, double-blind, parallel- group, active and placebo-controlled comparative clinical study of Rifaximin 200mg Tablets of Lupin Limited, India, with reference to Xifaxan 200mg	Lupin Limited, India	Co-PI	LRP/CRU/GEN/002/III/01	1 Years	Major	Completed (2009)

Other Activities:

- Expert / Examiner of MPPSC, Indore, India.
- Expert / Examiner of VIT University, Vellore, India
- Examiner of Manipal University Jaipur, India.
- Examiner of Jawaharlal Nehru Technical University, Hyderabad, India.
- Examiner of Jawaharlal Nehru University, New Delhi, India.
- Examiner of BBAU, Lucknow, India
- Examiner of Jaypee Institute of Information Technology, Noida, India.
- Examiner of VIT University Bhopal, India.
- Examiner of GLA University Mathura, India.
- Examiner of Chandigarh University, Chandigarh, India.
- Examiner of CCE, Tata Memorial Centre, Navi Mumbai, India.
- Examiner of Dr Harising Gour University Sagar, India.
- Examiner of Integral University, Lucknow, India.
- Examiner of Assam University, Silchar, India.
- Examiner of Pt Ravishankar Shukla University, Raipur, India.
- Examiner of Indian Institute of Technology Dhanbad, India.
- Examiner/Expert of National Testing Agency (NTA), New Delhi, India.
- Expert of India Council for Technical Education (AICTE), New Delhi (2025-26)
- Founder Executive Committee member (Treasurer) of Royal Statistical Society (India local group), UK, (2022-2025).
- Executive Committee member (East Zone), International Biometric Society (India

- Region), USA (2019-2021-2023-2026).
- ISI Young Statisticians Committee member (Country Representative: India), International Statistical Institute (ISI), Netherlands (2019-2021-2023-2025).
 - Executive Committee Member of National Academy of Sciences India (NASI), Jharkhand Chapter (2025-2026).
 - Faculty-in-Charge, Department of Mathematics & Computing, CIIE, Indian Institute of Technology Dhanbad, India since 2019.
 - Member of DFAC, Dept of Mathematics & Computing, IIT Dhanbad (2022-2024).
 - Member of Library Committee, Indian Institute of Technology (ISM) Dhanbad, India since June 2018.
 - Member of the Board of Studies: Division of Mathematics, VIT University, Bhopal, India since 2021.
 - Member of the Board of Studies: Division of Mathematics, MIT-WP University, Bhopal, India since 2023-2027.
 - Member of Board of Post Graduate Studies (BPGS), Assam University, Silchar, Assam.
 - Member of Board of Post Graduate Studies (BPGS), VIT University, Vellore, India since 2024.
 - Member of Course Committee of DNB, Central Hospital, BBCL, Dhanbad, India.
 - Member of Preliminary Assessment Committee of Shastri Indo-Canadian Institute, India since July 2019.
 - Member of Preliminary Assessment Committee for projects under Koita Centre for Digital Health (KCDH), IIT Bombay.
 - External Examiner for BSc (Hons) Industrial Statistics, Department of Applied Statistics (DAPS), Sunway University, Kuala Lumpur, Malaysia since 2023.
 - Member of departmental revenue budget/stock verification committee, IIT(ISM) Dhanbad, India since Aug 2019.
 - Member of Pharmaceutical Chemistry Coordination Committee, IIT(ISM) Dhanbad, India since June 2019.
 - Member of DUGC; Dept of Mathematics & Computing, IIT(ISM) Dhanbad (2019-2022).
 - Member of space requirement and stock verification committee; Department of Mathematics & Computing, IIT(ISM) Dhanbad.
 - Course Coordinator; IV-B. Tech (Common), Indian Institute of Technology (ISM) Dhanbad, India (2019-2020).
 - Course Coordinator; 0-B. Tech (Preparatory), Indian Institute of Technology (ISM) Dhanbad, India (2019-2020).
 - Course Coordinator; I-M.Tech (Common), Indian Institute of Technology (ISM) Dhanbad, India (2018-2019).
 - Organizing Committee Member; International Conference on Recent Trends in Mathematical, Physical & Computational Sciences (ICRTMPCS-2019), Dr Harisingh Gour Central University, Sagar, M.P., India.
 - Joint Secretary; National Conference on Modeling, Analysis and Simulation (MAS-2019), Indian Institute of Technology (ISM) Dhanbad, India
 - External Technical Committee Member; 3rd International Conference on Recent Advances in Smart Innovative Ideas with Multidisciplinary Research (IC-RASIMR-2019), RKDF University, Bhopal, M.P., India.
 - Coordinators of the Ice-breaking, ISI Young Statisticians Workshop (YS-ISI2019) during August 18, 2019 held at Sasana Kijang Bank Negara, Malaysia.
 - Organizing Committee Member; 3rd World Congress & Expo on Biotechnology and Bioengineering- 2019, Dubai, UAE.
 - Member of National Advisory Committee; International Conference on Advances in Electronics, Electrical & Computational Intelligence (ICAEEC-19), Indian Institute of Information Technology Allahabad, India

- Micro Observer (General) Legislative Assembly General Election-2019 Nirsa Assembly, Dhanbad Constituency.
- Micro Observer (PwD & 80 Plus Voters) Legislative Assembly General Election-2019 Dhanbad Assembly, Dhanbad Constituency.
- Micro Observer Lok Shabha General Election-2019 Dhanbad Constituency.
- Organizing Committee Member 2nd World Congress & Expo on Biotechnology and Bioengineering- 2018, Dubai, UAE.
- Vice-President; IIT(ISM) Dhanbad Faculty Forum (2018-20), IIT(ISM) Dhanbad.
- Member of Brand Building Website Management Cell, Indian Institute of Technology (ISM) Dhanbad, India since June 2018.
- Course Coordinator; I M.Sc. (Mathematics & Computing) Indian Institute of Technology (ISM) Dhanbad, India (2014-17).
- Teacher adviser; Anti Ragging Squad, Indian Institute of Technology (ISM) Dhanbad, India.
- Member of local BOCS, TAC, DAC, DSC, JRF interview committee Indian Institute of Technology (ISM) Dhanbad, India.
- Executive Member of Organizing Committee; 3rd International Conference on Applications of Fluid Dynamics (ICAFD-2016), IIT(ISM) Dhanbad, India.
- Member of Program Committee; 4th Annual Convention of Computer Society of India-2014, JNTU, Hyderabad.
- Member of Organizing Committee; 80th Annual Conference of the Indian Mathematical Society – 2014, Indian School of Mines, Dhanbad, India.
- Counting Micro Observer Legislative Assembly General Election-2014 Dhanbad Constituency.
- Micro Observer Legislative Assembly General Election-2014 Sindri Assembly, Dhanbad Constituency.
- Counting Micro Observer Lok Shabha General Election-2014 Dhanbad Constituency.
- Micro Observer Lok Shabha General Election-2014 Baghmara Assembly, Giridih Constituency.
- Vice-President-ISM Teachers Association (2014-2015), ISM Dhanbad, India.
- Member of the Board of Examiner Committee-2013, Central University of Bihar, Patna, India.
- Member of Advisory Committee; Use of SPSS in Research Methodology for Social Sciences, Rizvi College of Arts, Science and Commerce, Mumbai, India
- Member of Organizing Committee; National Conference on Recent Advances in Mathematics and its Applications-2013, Indian School of Mines, Dhanbad, India
- Member of Organizing Committee; National seminars/conferences/workshops, Indian School of Mines, Dhanbad, India.

Professional Associations:

- **Editor:** *Scientia Iranica-International Journal of Science & Technology*, Sharif University of Technology, Iran (2021-Present).
- **Co-Editor;** *Brazilian Journal of Biometrics*, International Biometric Society, Brazil, (2025-Present).
- **Associate Editor;** *Journal of Statistical Computation and Simulations*, Taylor & Francis (2025-Present)
- **Associate Editor;** *Journal of International Academy of Physical Sciences*, International Academy of Physical Sciences, India (2022-Present).
- **Associate Editor:** *BMC Medical Research Methodology*, Springer, (2020-2021).
- **Associate Editor;** *International Journal of Research*, Rizvi Education Society, India (2012-Present).
- **Associate Editor;** *Cloud Computing and Data Science*, Universal Wiser Publisher, Singapore (2020-Present).

- **Associate Editor;** *Measurement: Interdisciplinary Research and Perspectives*, Taylor & Francis, (2023-Present).
- **Guest Editor:** *Mathematical Problems in Engineering special issue “Advances in Randomized Response Methodology in Surveys”*, John Wiley & Sons Ltd (2021).
- **Guest Editor;** *Journal of Engineering Mathematics (Special issue)*, Springer 2023.
- **Guest Editor;** *Austrian Journal of Statistics*, ASA, Austria (2023).
- **Guest Editor;** *American Journal of Mathematical and Management Sciences*, Taylor & Francis, (2023).
- **Guest Editor;** *Discover Medicine special issue “Advances in Artificial Intelligence for Big Data Medicine: Innovations and Applications”*, Springer 2024.
- **Editorial Board Member;** *Mathematics for Applications*, Brno University of Technology, Czech Republic, (2024-Present)
- **Editorial Board Member;** *Turkiye Klinikleri Journal of Biostatistics*, Turkiye Klinikleri, Turkiye (2019-Present).
- **Editorial Board Member;** *Revista de Investigacion Operacional*, Universidad de LaHabana, Cuba (2018-Present).
- **Editorial Board Member;** *DRISHTIKON: A Management Journal*, Symbiosis Centre for Management and Human Resource Development, India (2010-Present).

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- Annual Member; *Indian Society of Agricultural Statistics*, India (2005).
 - Member; *International Statistical Institute*, Netherlands (2007).
 - Full Member; *Society for Epidemiologic Research*, UK (2009).
 - Annual Member; *Indian Statistical Association*, India (2009).
 - Life member; *International Indian Statistical Association*, USA (2017).
 - Life member; *International Academy Physical Sciences*, India (2018).
 - Life Member; *Operation Research Society of India*, India (2022).
 - Life Member; *Epidemiology Foundation of India*, India (2023).
 - Member; *International Association for Statistical Education* (2019).
 - Member; *Young Statisticians-International Statistical Institute*, Netherlands (2019).
 - Life Member; *Indian Society for Medical Statistics*, India (2020).
 - Life Member; *International Biometric Society*, USA (2020).
 - Life Member; *Indian Society for Probability and Statistics*. India (2020).
 - Life Member; *Vijñāna Parishad of India*, India (2020).
 - Member; *International Society for Pharmacoeconomics and Outcomes*, USA (2020).
 - Member; *Institute of Mathematical Statistics*, USA (2022).
 - Member; *Statistical Society of Australia*, Australia (2023).

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- Reviewer; *Model Assisted Statistics and Applications*, USA.
 - Reviewer; *Indian Statistical Association*, India
 - Reviewer; *Varahamihir Journal of Mathematical Sciences*, India
 - Reviewer; *International Journal of Research*, India
 - Reviewer; *DRISHTIKON: A Management Journal*, India
 - Reviewer; *Communications in Statistics – Theory and Methods*, Taylor & Francis.
 - Reviewer; *Communications in Statistics-Simulation and Computation*, Taylor & Francis.
 - Reviewer; *Computational Statistics*, Springer.
 - Reviewer; *Applied Mathematics and Computation*, Elsevier.
 - Reviewer; *Journal of Applied Probability and Statistics*, Pakistan
 - Reviewer; *Anadolu University Journal of Science and Technology*, Turkey
 - Reviewer; *Journal of Applied Statistics*, UK
 - Reviewer; *Proceedings of the National Academy of Sciences, India Section A*, India
 - Reviewer; *Hacettepe Journal of Mathematics and Statistics*, Turkey
 - Reviewer; *Pakistan Journal of Statistics*, Pakistan
 - Reviewer; *Pakistan Journal of Statistics and Operation Research*, Pakistan

- Reviewer; *Journal of Statistical Theory and Practice*, Springer
- Reviewer; *Journal of Statistics Applications & Probability Letters*. USA
- Reviewer; *Journal of Statistics Applications & Probability*, USA
- Reviewer; *Statistics in Transition – new series*, Poland
- Reviewer; *Communications for Statistical Applications and Methods*, Korea
- Reviewer; *Brazilian Journal of Probability and Statistics*, Brazil
- Reviewer; *Brazilian Journal of Biometrics*, Brazil
- Reviewer; *Revista de Investigacion Operacional*, Cuba
- Reviewer; *Austrian Journal of Statistics*, Austria
- Reviewer; *Mathematical Population Studies*, UK
- Reviewer; *Journal of Reliability and Statistical Studies*, India
- Reviewer; *Journal of King Saud University Science*, Saudi Arabia.
- Reviewer; *Clinical Epidemiology and Global Health*, USA
- Reviewer; *Open Journal of Statistics*, USA
- Reviewer; *Cogent Mathematics & Statistics*, USA
- Reviewer; *BigSurv18*, int. conference on Big Data Meets Survey Science, Spain
- Reviewer; *Journal of Brain & Neuroscience Research*, USA.
- Reviewer; *Annals of Community Medicine and Practice*, USA.
- Reviewer; *Scientia Iranica-International Journal of Science and Engineering*, Iran.
- Reviewer; *Journal of Mathematics and Statistics*, UAE
- Reviewer; *Survey Methodology*, Canada.
- Reviewer; *Journal of the Nigerian Mathematical Society*, Nigeria.
- Reviewer; *Aligarh Journal of Statistics*, India
- Reviewer; *International Journal of Applied and Computational Mathematics*, Switzerland
- Reviewer; *BMC Medical Research Methodology*, Springer.
- Reviewer; *PLOS ONE*, USA.
- Reviewer; *Statistics & Probability Letters*, USA.
- Reviewer; *Statistical Papers*, Springer.
- Reviewer; *Stat*, John Wiley & Sons, Inc.
- Reviewer; *Thai Statistician*, Thailand.
- Reviewer; *Journal of Computational and Applied Mathematics*, Elsevier.
- Reviewer; *Annals of Data Science*, Springer.
- Reviewer; *Mechatronic Systems and Control*, Canada
- Reviewer; *Kuwait Journal of Science*, Kuwait
- Reviewer; *Communications Faculty of Sciences University of Ankara Series A1 Mathematics and Statistics*, Turkey.
- Reviewer; *Journal of Applied Mathematics, Statistics and Informatics*, De Gruyter.
- Reviewer; *Proc. Inst. Mech. Eng, Part O: Journal of Risk and Reliability*, U.K.
- Reviewer; *Computational and Systems Oncology*, USA.
- Reviewer; *Gene Reports*, Elsevier.
- Reviewer; *Journal of Agriculture and Food Research*, Elsevier.
- Reviewer; *Microprocessors and Microsystems*, Elsevier.
- Reviewer; *Multimedia Tools and Applications*, Springer.
- Reviewer; *Journal of Ovarian Research*, Springer Nature.
- Reviewer; *Concurrency and Computation: Practice and Experience*, John Wiley.
- Reviewer; *Cancer Biomarkers*, IOS Press, The Netherlands.
- Reviewer; *International Journal of Diabetes in Developing Countries*, Springer.
- Reviewer; *Journal of the Korean Statistical Society*, Springer.
- Reviewer; *Measurement: Interdisciplinary Research and Perspectives*, Taylor & Francis.
- Reviewer; *Biometrical Journal*, John Wiley & Sons, Inc.
- Reviewer; *Asian Journal of Business Ethics*, Springer.
- Reviewer; *Regional Science Policy & Practice*, John Wiley & Sons, Inc.
- Reviewer; *Breast Cancer: Basic and Clinical Research*, SAGE Publications.

- Reviewer; *Ain Shams Engineering Journal*, Elsevier.
- Reviewer; *Heliyon*, Elsevier.
- Reviewer; *Quality & Quantity*, Springer.
- Reviewer; *Journal of Radiation Research and Applied Sciences*, Elsevier.
- Reviewer; *Journal of Global Information Management*, IGI.
- Reviewer; *IEEE Transactions on Engineering Management*, IEEE.
- Reviewer; *IEEE Transactions on Reliability*, IEEE Reliability Society.
- Reviewer; *Journal of Statistical Computation and Simulations*, Taylor & Francis.
- Reviewer; *OPSEARCH*, Springer.
- Reviewer; *Scientific Reports*, Springer.
- Reviewer; *Turkish Journal of Electrical Engineering & Computer Sciences*, STRC Turkey.
- Reviewer; *Life Cycle Reliability and Safety Engineering*, Springer.
- Reviewer; *Science Progress*, Sage Publishing.
- Reviewer; *International Statistical Review*, Wiley Inc.

Book Reviewed:

- Theory and Methods of Piecewise Defined Fractional Operators; *Elsevier*, USA.
- Probability Theory and Random Processes; *Tata Mc-Graw Hill Education*, India
- Sample Survey and Statistical Designs–Theory and Applications; *Cambridge University Press India Pvt. Ltd.*, India.

Examined Thesis /Conducted Viva Voce as an External Examiner

Sl. No	Title of Thesis	Name of Candidate (Year of Evaluation)	University	Examined/ Viva Voce
1	Time Series Modeling with Outlier under Bayesian Framework	Bhagchand Meena (2025)	Central University of Rajasthan, IND	Examined and Viva Voce
1	Stochastic Modelling of Queueing Systems with Customer Discouragement	Savita (2025)	Chandigarh University, IND	Examined and Viva Voce
2	Advances in the theory of Network topological properties using Petri Nets and their Application in Data Mining	Riddhi Jangid (2025)	JNU Delhi, IND	Examined and Viva Voce
3	Use of Metaheuristic Approaches in Reliability Estimation of Industrial System	Naveen Kumar (2025)	Manipal University Jaipur, IND	Examined and Viva Voce
4	Performance Modelling and Optimization of Stochastic Inventory Queueing Models using Soft Computing Techniques	Mridula Jain (2024)	Manipal University Jaipur, IND	Examined and Viva Voce
5	Bus traveling time variability: a modeling study with statistical approach and application	Victor Low Jian Ming (2024)	Universiti Tunku Abdul Rahman, MY	Examined and Viva Voce
6	Statistical Modeling of Merger and Acquisition (M&As) in Time Series Framework	Mr. Mohd Mudassir (2023)	Central University of Rajasthan, IND	Examined and Viva Voce
7	Identification of potential drug targets using computational approaches, development of drug target database for neglected tropical diseases and structure-based drug design	Ram Nayan Verma (2023)	JNU Delhi, IND	Examined and Viva Voce

8	Comparison of body-mass-index-for-age and weight-for-height for estimating prevalence of thinness and overweight in under-five children in populations	L Naga Rajeev (2023)	Manipal University Jaipur, IND	Examined and Viva Voce
9	Machine Learning Based Detection of DDOS Attacks for Security Enhancement	Ankit Agarwal (2023)	Banasthali University Jaipur, IND	Examined
10	Modeling of Molecular Mechanism in Drug Resistant Tuberculosis using Petri Nets	Madhuri (2023)	JNU Delhi, IND	Examined
11	Analysis of Various Reliability Measures of Steam Turbine Power Plant	Nivedita Gupta (2023)	Manipal University Jaipur, IND	Examined and Viva Voce
12	An Enhanced Classification Model for Disease Detection in Apple Leaves	Arshleen (2023)	Chandigarh University, IND	Examined
13	Performance and Availability Optimization of Sewage Treatment Plant by Using RAMD and Soft Computing Techniques	Drishty Goyal (2023)	Manipal University Jaipur, IND	Examined and Viva Voce
14	Characterization of reachability in petri nets and its applications	Sujit Kumar Singh (2022)	JNU Delhi, IND	Examined and Viva Voce
15	A study on fuzzy linear programming for optimization problems	Althada Ramesh Babu (2022)	JNTU Hyderabad, IND	Examined
16	DDoS Attack on Cloud Computing	Sanjeev Chauhan (2022)	JNU Delhi, IND	Examined
17	Effective Identification of Endometrial Tuberculosis for Infertility using Machine Learning	Varsha Garg (2022)	JIIT Noida, IND	Examined and Viva Voce
18	Transformation and its application in digital image processing	AFM Jaffar Iqbal Barbhuiya (2018)	Assam University Silcher, IND	Examined

Visited Abroad:

1. **USA:** to participate in the 32nd International Biometric Conference of International Biometric Society during Dec 08-13, 2024 at The Atlanta Marriott Marquis, Atlanta, Georgia.
2. **Qatar:** to visit Doha City in transit of USA during Dec 07-08, 2024 at The Business Park, Holiday Inn, Doha.
3. **Malaysia:** to attend USA VISA interview and visit Institute of Actuarial Science and Data Analytics, Kuala Lumpur, Malaysia during Nov 19-24, 2024.
4. **France:** to participate in 6th tri annual conference on Stochastic Processes in Evolutionary Biology during May 20-24, 2024 held at Centre International de Rencontres Mathematiques (CIRM), Luminy, Marseille.
5. **Malaysia:** to work under the SIRE Fellowship in the Institute of Actuarial Science and Data Analytics, Kuala Lumpur, Malaysia during Dec 19, 2022– April 18, 2023.
6. **Latvia:** to participate in the 31st International Biometric Conference of International Biometric Society during July 10-15, 2022 at Radisson Blu Latvija Conference & Spa Hotel, Riga.
7. **Malaysia:** To participate in 62nd World Statistics Conference of International Statistical Institute (ISI-WSC 2019) during Aug 18 – 23, 2019 held at Kuala Lumpur Convention Centre, Kuala-Lumpur.

8. **United Kingdom:** to participate in the 7th Channel Network Conference of International Biometric Society during July 10-12, 2019 at Rothamsted Research, Harpenden.
9. **Kuwait:** In transit of UK during July 09-10, 2019 at Hotel Safir Airport, Kuwait City.
10. **Vietnam:** to participate in the International Conference on Applied Probability and Statistics (CAPS 2019) during April 2-6, 2019 at Hanoi, Vietnam.
11. **France:** To participate in Workshop on Young Bayesians and Big Data for Social Good and Conference Bayesian Statistics in Big Data Era during Nov 23-30, 2018 held at Centre International de Rencontres Mathematiques (CIRM), Luminy, Marseille.
12. **Morocco:** To participate in 61st World Statistics Congress of International Statistical Institute (ISI-WSC 2017) during July 16 – 21, 2017 held at Movenpick Hotel Mansour Eddahbi, Marrakesh, Morocco.
13. **Indonesia:** To participate in 2nd Regional Statistics Conference of International Statistical Institute (ISI-RSC 2017) during March 20-24, 2017 held at NusaDua, Bali.
14. **Singapore:** To visit Singapore city In transit of Indonesia during March 19, 2019.
15. **Indonesia:** To participate in 2nd Regional Statistics Conference of International Statistical Institute (ISI-RSC 2017) during March 20-24, 2017 held at NusaDua, Bali.
16. **France:** To participate in Workshop on Bayesian Statistics and Algorithms during Feb 29-March 4, 2016 held at Centre International de Rencontres Mathematiques (CIRM), Luminy, Marseille.
17. **Malaysia:** To participate in 1st Regional Statistics Conference of International Statistical Institute (ISI-RSC 2014) during Nov 16-19, 2014 held at Sasana Kijang, Kuala-Lumpur.
18. **Thailand:** To participate in 15th International Conference of International Academy Physical Sciences during Dec 09 – 13, 2012 held at Rajamangala University of Technology, Thanyaburi.

Organized Seminars/Conferences/Workshops:

- Organized two weeks interdisciplinary refresher course on “Research, Writing and Analysis” during Nov 11-22, 2024 at Indian Institute of Technology (ISM) Dhanbad, India.
- Organized one week GIAN course on Option Pricing: A Computational Framework during Dec 18-23, 2023 at Indian Institute of Technology (ISM) Dhanbad, India.
- Organized one week GIAN course on Big Data Analysis through Copula during Dec 11-16, 2023 at Indian Institute of Technology (ISM) Dhanbad, India.
- Organized One Day Seminar on Statistics & Data Science" on the occasion of "National Statistics Day" on June 29, 2022 at Department of Mathematics & Computing, Indian Institute of Technology (ISM) Dhanbad, India.
- Organized an International Conference on “Recent Trends in Applied Sciences and Computing Engineering” (RTASCE -2021) with collaboration of VIT University Bhopal, during 17-19 Dec 2021.
- Organized “National Statistics Day” on June 29, 2021 at Tata Memorial Centre Mumbai in collaboration with Department of Mathematics & Computing, Indian Institute of Technology (ISM) Dhanbad, India.
- Organized a National workshop on Statistical Computing with R during November 02-03, 2019 at Indian Institute of Technology (ISM) Dhanbad, India.
- Organized one week GIAN course on Derivative Pricing during April 24-30, 2019 at Indian Institute of Technology (ISM) Dhanbad, India.
- Organized the five days National Workshop on Mathematical Sciences for CSIR-UGC NET Aspirants during May 09-13, 2018 at VIT University, Chennai, India.
- Organized a session in 3rd International Conference on Statistics for Twenty-First Century 2017 (ICSTC-2017) during December 14-16, 2017 held at Department of Statistics, University of Kerala, Trivandrum, India.

- Organized a session in 2nd Regional Statistics Conference of International Statistical Institute (ISI-RSC 2017) during March 20-24, 2017 held at Westin Resort, Nusa Dua, Bali, Indonesia.
- Organized a short term course on Applications of Statistics in Advanced Research (ASAR-2016) during November 24-28, 2016 at Indian Institute of Technology (ISM) Dhanbad, India.
- Organized a workshop on Application of Statistical Tools in Research and Data Analysis (ASTRDA-2016) during February 08-11, 2016 at Indian Institute of Technology (ISM) Dhanbad, India.
- Organized a Research Scholar Meet -2014, Indian Institute of Technology (ISM) Dhanbad, India.

Chaired/Judged the Session in Seminars/Conferences/Workshops:

1. Best poster presentation in five days International Workshop on Approximation Techniques to Solve Problems in Computational Finance during April 26-30, 2024, Organized by Department of Mathematics & Statistics, Dr. Harisingh Gour Vishwavidyalaya, Sagar, India
2. Seminar presentation in Interdisciplinary Refresher Course on Computational Mathematics during March 17, 2021 at UGC-Human Resource Development Centre, Dr. Haisingh Gour Vishwavidyalaya (A Central University) Sagar, India.
3. 26th International Conference of IAMS (online) on Advances in Differential Equations & Mathematical Modelling (IC-ADE-MM-2020), School of Computational and Integrative Sciences, JNU, New Delhi-110067 during December 18-20, 2020.
4. Anveshan 2020 National Student Research Convention Rajiv Gandhi Proudlyogiki Vishwavidyalaya Bhopal & Association of Indian University, New Delhi during December 15-16, 2020.
5. Seminar presentation in Interdisciplinary Refresher Course on Data Analysis using Statistical Methods during August 06-19, 2020 at UGC-Human Resource Development Centre, Dr. Haisingh Gour Vishwavidyalaya (A Central University) Sagar, India.
6. International Conference on Recent Trends in Mathematics and Its Applications to Graphs, Networks and Petri Nets (ICRTMA-GPN-2020) during July 20-24, 2020 jointly organised by School of Computational and Integrative Sciences, J.N.U., New Delhi-110067, India and Vijayana Parishad of India.
7. International conference on Emerging Innovations in Statistics & Operation Research (EISOR-2018) in conjunction with 38th Annual Conference of ISPS and 4th Convention of IARS during December 27-30, 2018 at Department of Statistics, Maharshi Dayanand University, Rohtak, India.
8. 2nd International Conference of Vijnana Parishad of India on Recent Trends of Computing in Mathematics, Statistics & Information Technologies during March 09-11, 2018 held at Bundelkhand University, Jhansi, India.
9. 3rd International Conference on Statistics for Twenty-First Century 2017 (ICSTC-2017) during December 14-16, 2017 held at Department of Statistics, University of Kerala, Trivandrum, India.
10. Regional Statistics Conference of International Statistical Institute (ISI-RSC 2017) during March 20-24, 2017 held at Westin Resort, Nusa Dua, Bali, Indonesia.
11. National Workshop on Vedic Mathematics during January 06 – 07, 2017 held at Department of Mathematics and Statistics, Dr. Haisingh Gour Vishwavidyalaya (A Central University) Sagar, India.
12. International Conference on Recent Advances in Mathematical Sciences and Applications during December 24–26, 2013 held at Department of Applied Mathematics, RGPV, Bhopal, India.
13. National seminar on Recent Trends in Mathematical Science and Applications during

November 04 – 05, 2012 Sponsored by UGC held at Govt. PG College, Panna, Madhya Pradesh, India.

Delivered Guest Lectures/Invited Talks/Resource Person:

1. Invited talk on “Bayesian Statistics – Theory and Modeling” in FDP cum workshop titled "Statistics, Machine Learning, and Optimization" during June 26-30, 2025 (online mode) at IIIT Kottayam, India.
2. Invited talk on "Statistics in Machine Learning for Data Analytics" in Advances in Machine Learning for Data Analytics (AMLDA-2025) during May 07-08, 2025 at Department of Computer Science, Maharaja Sriram Chandra Bhanja Deo University Takatpur, Baripada, Odisha, India.
3. Invited talk on “Resampling approach for feature selection on predicting outcome using micro-array data” in the International Conference on Innovative Trends in Statistics, Optimization and Data Science (IC-ITSODS-2024) during December 8-13, 2024 at Kurukshetra University, Kurukshetra, India.
4. Invited lecture on “Gene Expression Data Analysis Using Bayesian State-Space Modeling” in 3rd International Workshop on Advanced Topics in Mathematics (IWATM-2024) during December 16-20, 2024 at IIIT Naya Raipur, India
5. Invited lectures on “Testing of Hypothesis” in the Short-Term Programme on Research Methodology & Data Analysis during December 09-14, 2024, Organized UGC-MMTTC, Indian Institute of Technology (ISM) Dhanbad, India.
6. Invited lectures on “Regression Models in Machine Learning” in Interdisciplinary Refresher Course on Quant Hub: Exploring Math, Stats, ML in Data Science during May 15-19, 2024 at Mathematics and Scientific Computing Department NIT Hamirpur, India.
7. Invited lecture in five days International Workshop on Approximation Techniques to Solve Problems in Computational Finance during April 26-30, 2024, Organized by Department of Mathematics & Statistics, Dr. Harisingh Gour Vishwavidyalaya, Sagar, India.
8. Invited lecture on Research and Development in the 9th NEP Orientation and Sensitisation Programme during April 15-27, 2024, Organized UGC-MMTTC, University of Rajasthan, India.
9. Delivered an invited talk on "Estimation of Treatment Effects with Missing Observations" in International Conference on Statistics, Data Science and Reliability: Exploring Trends, Methods & Applications (IC-SDSRETMA-2023) during December 24-26, 2023 at Department of Statistics, M.D. University, Rohtak-124001, India.
10. Invited lecture on “Regression Models and its Applications” during November 03, 2023 organized by Department of Mathematics, GITAM University, Bengaluru, India.
11. Invited lecture on “Regression Models and Machine Learning” in five Days International Workshop on Fairness-and-Trust-in-Mathematical-Modelling-and Machine-Learning-Techniques during October 09 – 13, 2023 organized by VIT Bhopal University, India.
12. Invited lectures in Interdisciplinary Refresher Course on Data Science using Language and Tools for Multidisciplinary Domain during Sep 09, 2023 at UGC-Human Resource Development Centre, Dr. Harisingh Gour Vishwavidyalaya (A Central University) Sagar, India.
13. Invited lecture on “Regression Analysis and its real time applications” in five Days FDP on Recent Advances and Future Trends in AI, Computer Vision and NLP during March 26 - April 3 2023 organized by VIT University Chennai, India.
14. Public Talk on “Regression Models and its Applications” during March 03, 2023 at Institute of Actuarial Science and Data Analysis, UCSI University, Kuala Lumpur, Malaysia.
15. Invited lectures in Inter/Multi-Disciplinary Refresher Course on 'Recent Data

- Analysis Methods during July 20 to August 02, 2022 at UGC-Human Resource Development Centre, Dr. Haisingh Gour Vishwavidyalaya (A Central University) Sagar, India.
16. Delivered a key note lecture in "2nd International Virtual Conference on Population data for sustainable socio-economic development" Sponsored by Royal Statistical Society (Nigeria Local Group) and International Statistical Institute (International Association of Survey Statisticians) during 03 November 2021 Organized by Department of Statistics, College of Physical Sciences, Federal University of Agriculture, Abekuta, Nigeria.
 17. Invited lectures in Interdisciplinary Refresher Course on Computational Mathematics during March 04-18, 2021 at UGC-Human Resource Development Centre, Dr. Harisingh Gour Vishwavidyalaya (A Central University) Sagar, India.
 18. Invited lectures for AICTE-ATAL sponsored refresher programme in the topic Artificial Intelligence, Machine Learning and Deep Learning during February 22-26, 2021 at Department of Computer Science and Engineering, GIET University Gunupur, India.
 19. Invited lectures in QIP sponsored workshop on Matrix Computations and its application in systems, signal and control problems organized by Discipline of Mathematics, Indian Institute of Technology Indore during February 16-21, 2021.
 20. Invited lectures in QIP sponsored workshop on Wavelet via Matrices and its Applications in signals and image processing organized by Discipline of Mathematics, Indian Institute of Technology Indore during November 16-21, 2020.
 21. Invited talk in International Virtual Conference on Advanced Statistical Techniques in Business and Industry a Regional Virtual Conference of International Society for Business and Industrial Statistics (ISBIS) during the 28-30 Dec 2020 organized by Department of Statistics, Cochin University of Science & Technology, Kerala, India.
 22. Invited lectures for AICTE-ISTE Induction/Refresher Programme in the topic Data Analysis Using Deep Learning during 14-19, Dec 2020 at Department of Information Technology, National Engineering College, Thoothukudi, India.
 23. Invited lectures for AICTE-ISTE Induction/Refresher Programme in the topic Data Analysis Using Deep Learning during 16-21, Nov 2020 at Department of Information Technology, National Engineering College, Thoothukudi, India.
 24. Invited lectures for AICTE-ISTE Induction/Refresher Programme in the topic Data Analysis Using Deep Learning during 2-5, Nov 2020 at Department of Information Technology, National Engineering College, Thoothukudi, India.
 25. Invited lectures in Interdisciplinary Refresher Course on Data Analysis using Statistical Methods during August 06-19, 2020 at UGC-Human Resource Development Centre, Dr. Haisingh Gour Central University, Sagar, India.
 26. Invited Lecture in the National E-seminar on Mathematical Sciences during August 5, 2020 organized by Department of Mathematics, Govt. Tulsi College, Anuppur (M.P.), India
 27. Invited Lecture in Two Days National Webinar on Mathematical Modeling in Biological Systems during June 5-6, 2020 organized by Department of Mathematics and Statistics, Dr. Harisingh Gour Central University Sagar, M.P., India.
 28. Invited Lecture in the National Webinar on Impact of Sampling and Non-Sampling Errors on Survey Studies, during May 18, 2020 organized by Department of Statistics, St. John's College, Agra, India.
 29. Invited lectures in Interdisciplinary Refresher Course on Mathematical Modeling in Social Sciences during February 08, 2020 at UGC-Human Resource Development Centre, Dr. Haisingh Gour Vishwavidyalaya (A Central University) Sagar, India.
 30. Delivered lectures in National Workshop on Recent Advances in Civil Engineering during December 28, 2019 at Koneru Lakshmaiah University, Guntur, India.
 31. Delivered a lecture in National Seminar on Applications of Mathematical Modelling,

- Optimization Techniques and Technical Terminology in Mechanical Engineering during November 15-16, 2019 sponsored by Commission for Scientific & Technical Terminology (Higher Education - MHRD, Govt. of India) New Delhi held at SRMS College of Engineering & Technology, Bareilly, India
32. Invited talk in International conference on Emerging Innovations in Statistics & Operation Research (EISOR-2018) in conjunction with 38th Annual Conference of ISPS and 4th Convention of IARS during December 27-30, 2018 at Department of Statistics, Maharshi Dayanand University, Rohtak, India.
 33. Invited talks in Workshop on Young Bayesians and Big Data for Social Good during November 23-26, 2018 held at Centre International de Rencontres Mathematiques (CIRM), Luminy, Marseille, France.
 34. Invited talk in International Conference on Mathematical Modelling and Scientific Computing (ICMMSC-2018) during July 19-21, 2018 held at Discipline of Mathematics, Indian Institute of Technology Indore, India.
 35. Invited talk in 2nd International Conference of Vijnana Parishad of India on Recent Trends of Computing in Mathematics, Statistics & Information Technologies (RTCMSIT-2018) during March 09-11, 2018 held at Bundelkhand University, Jhansi, India.
 36. Delivered a lecture in National Seminar on Importance of Technology Terminology in Mathematics and its Applications during February 16-18, 2018 sponsored by Commission for Scientific & Technical Terminology (Higher Education - MHRD, Govt. of India) New Delhi held at Nehru Gram Bharti University, Allahabad.
 37. Invited talk in 3rd International Conference on Statistics for Twenty-First Century 2017 (ICSTC-2017) during December 14-16, 2017 held at Department of Statistics, University of Kerala, Trivandrum, India.
 38. Invited lecture on Eigenvalues and Eigenvectors of a Matrix during December 12, 2017 at Vellore Institute of Technology University, Chennai, India.
 39. Invited talk in National Conference on Advanced Developments in Theoretical and Applied Statistics (ADTS-2017) during November 13-15, 2017 held at Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi, India.
 40. Invited lecture in Interdisciplinary Refresher Course on ICT(MD) during January 07, 2017 at UGC-Human Resource Development Centre, Dr. Haisingh Gour Vishwavidyalaya (A Central University) Sagar, India.
 41. Delivered an invited talk in National Workshop on Vedic Mathematics during January 06-07, 2017 held at Department of Mathematics and Statistics, Dr. Haisingh Gour Vishwavidyalaya (A Central University) Sagar, India.
 42. Delivered a series of lectures in short term course on Applications of Statistics in Advanced Research (ASAR-2016) during November 24-28, 2016 at Indian Institute of Technology (ISM) Dhanbad, India.
 43. Delivered a series of lectures in workshop on Application of Statistical Tools in Research and Data Analysis (ASTRDA-2016) during February 08-11, 2016 at Indian Institute of Technology (ISM) Dhanbad, India.
 44. Delivered a series of lectures on "Matrix Theory and its Applications" during December 05, 2015 at Department of Mathematics, Government P.G. College, Niwari, Tikamgarh, India.
 45. Key Note Speaker in International Conference on Recent Advances in Mathematical Sciences and Applications, during December 24-26, 2013 held at Department of Applied Mathematics, RGPV, Bhopal, India.
 46. Invited talk on Estimation of Population Mean Using Auxiliary Information in Sample Surveys, during October 10, 2013 at Department of Mathematics, Indian Institute of Technology Indore, India
 47. Invited lecture in Staff Development Program on Application of Numerical Methods and Software in Science and Engineering (Sponsored by AICTE), during December

- 17–22, 2012 held at Department of Applied Mathematics, RGPV, Bhopal, India.
48. Invited talk in 21st International Conference on Interdisciplinary Mathematics, Statistics and Computational Techniques, during December 15–17, 2012 held at Panjab University, Chandigarh, India.
 49. Guest Lecture on Non-Inferiority & Adaptive Clinical Trials, during August 18, 2011 at SIRO Clinpharma, Mumbai, India.
 50. Guest Speaker in AICTE Sponsored Quality Improvement Programme; Clinical Pharmacy Research & Regulatory Affairs during January 18–30, 2010 held at Poona College of Pharmacy, Bharati Vidyapeeth University, Pune, India.
 51. Delivered a lecture on Descriptive Statistics and Testing of Hypothesis during March 27, 2010 at MITCON, Pune, India.
 52. Invited talk on Fundamental of Statistics, under Spectrum's activities during November 20, 2009 held at Lupin research Park, Pune, India.

Summer School/Refresher Course/Staff Development/Orientation Program Attended:

1. Orientation program during February 9- 29, 2016 held at Faculty Development Centre, Indian Institute of Technology (ISM) Dhanbad, India.
2. Staff Development Program on Application of Numerical Methods and Software in Science and Engineering (Sponsored by AICTE), during December 10–22, 2012 held at Department of Applied Mathematics, RGPV, Bhopal, India.
3. Advanced Instructional School in Weak Convergence with Applications in Statistics, during June 01–25, 2010 held at Department of Statistics & Centre of Advanced Studies in Statistics, University of Pune, Pune, Maharashtra, India.

Workshop/Training/Short Courses Programme Attended:

1. Workshop on Non-inferiority trials: designs and sample size calculations” and “Adaptive designs in phase III trials” as part of the 38th Annual Conference of the Indian Society for Medical Statistics (ISMCON -2020) held on virtual platform during 9th December 2020.
2. Two Days Online Workshop on “Sample Size Determination Using G-power Software” held on May 23-24, 2020 Organised by Department of Statistics, St. John's College, Agra, India.
3. COVID-19: from a statistical point of view during May 09, 2020 organized by Young Statisticians-International Statistical Institute, Netherlands.
4. Group Monitoring Workshop organized by SERB, DST during October 10, 2019 at Jamia Hamdard, New Delhi.
5. ISI Young Statisticians Workshop (YS-ISI2019) during August 18, 2019 held at Sasana Kijang Bank Negara, Malaysia.
6. Workshop on Young Bayesians and Big Data for Social Good during November 23-26, 2018 held at Centre International de Rencontres Mathematiques (CIRM), Luminy, Marseille, France.
7. Workshop on Reliability Theory and Survival Analysis during November 20-22, 2017 held at Indian Statistical Institute, Kolkata, India.
8. Short Course on Time Series Analysis for Repeated Sample Surveys during March 20-21, 2017 held at Westin Resort, Nusa Dua, Bali, Indonesia.
9. Short Course on Statistics of Extremes and Risk Evaluation Using R during March 21, 2017 held at Westin Resort, Nusa Dua, Bali, Indonesia.
10. National Workshop on Vedic Mathematics during January 06–07, 2017 held at Department of Mathematics and Statistics, Dr. H.S. Gour Vishwavidyalaya (A Central University) Sagar, India.
11. Workshop on Bayesian Statistics and Algorithms during Feb 29-March 4, 2016 held at Centre International de Rencontres Mathematiques (CIRM), Luminy, Marseille,

France.

12. An authors workshop on "How to Write and Publish Scholarly Articles in High Impact Factor Journals" during November 20, 2015 held at Indian School of Mines, Dhanbad, India organized by Springer.
13. Short Course on Introduction to Designing Surveys for Policy Evaluation, during November 15, 2014 held at Sasana Kijang, Kuala Lumpur, Malaysia.
14. Short Course on Data Mining and Predictive Analytics, during November 20, 2014 held at Sasana Kijang, Kuala Lumpur, Malaysia.
15. Workshop on intellectual Property Rights, during February 14, 2014 held at Indian Institute of Technology (ISM) Dhanbad, India.
16. International Workshop on Bayesian Theory and Application, during January 6 – 7, 2013 held at Banaras Hindu University, Varanasi, India.
17. Workshop on Reliability Theory and Survival Analysis, during December 03 – 05, 2012 held at Indian Institute of Technology, Kanpur, India.
18. Workshop on GCP for BA/BE Studies, during December 22–23, 2008 held at Lupin Bio-Research Centre, Pune, India.
19. Training on SAS (Statistical Analysis System) Software, during December 17–21, 2007 held at Biostatistics Resource & Training Center, Department of Biostatistics, Christian Medical College, Vellore, Chennai, India.
20. Workshop on Modeling focal theme to create awareness and understanding of Mathematical & Computational Modeling, during January 27–29, 2006 held at Department of Mathematical Sciences & Computer Applications, Bundelkhand University, Jhansi, UP, India.
21. Workshop on Water Harvesting, during May 15 -17, 2005 held at Ujjain Engineering College, Ujjain, MP, India.
16. Workshop on Computer Applications in Social Sciences (SPSS), during December 13–22, 2004 held at MPISSR, Ujjain, M.P., India.
17. Workshop on Research Methodology in Social Sciences, during March 16 – 25, 2004 held at MPISSR, Ujjain, M.P. India.

Seminars/Conferences Attended and Research Paper Presented:

1. 32nd International Biometric Conference of International Biometric Society during Dec 08-13, 2024 at The Atlanta Marriott Marquis, Atlanta, Georgia, USA.
2. 6th tri annual conference on Stochastic Processes in Evolutionary Biology during May 20-24, 2024 held at Centre International de Rencontres Mathematiques (CIRM), Luminy, Marseille, France.
3. 41st Annual Conference of the Indian Society for Medical Statistics (ISMSCON -2023) during November 02-04, 2023 held at Department of Mathematics & Statistics, M.G. University, Kottayam, India
4. 64th ISI World Statistics Congress during July 16–20, 2023 held in Ottawa, CANADA.
5. 31st International Biometric Conference (IBC2022) during July 10-15, 2022 held at Riga, Latvia.
6. International Conference on Advances in Interdisciplinary Statistics and Combinatorics–AISC 2021 during October 08-10, 2021 held at UNC Greensboro, USA.
7. Virtual IASE 2021 Satellite Conference: Statistics Education in the Era of Data Science during August 30-September 04, 2021 held at Australia.
8. 38th Annual Conference of the Indian Society for Medical Statistics (ISMSCON -2020) held on a virtual platform during December 10-12, 2020.
9. 25th International Conference (CONIAPS XXV) on Physical and Biological Sciences at Cross-roads: Interdisciplinary Explorations and Exciting Challenges” during December 29-31, 2019 held at Guru Jambheshwar University of Science & Technology, Hisar, India.
10. National Seminar on Applications of Mathematical Modelling, Optimization

- Techniques and Technical Terminology in Mechanical Engineering during November 15-16, 2019 sponsored by Commission for Scientific & Technical Terminology (Higher Education - MHRD, Govt. of India) New Delhi held at SRMS College of Engineering & Technology, Bareilly, India
11. National Seminar on Vedic Mathematics and Indian Languages during October 18-19, 2019 held at Commission for Scientific & Technical Terminology (Higher Education - MHRD, Govt. of India) New Delhi, India
 12. 62nd International Statistical Institute World Statistics Congress (ISI WSC 2019) during August 18-23, 2019 held at Kuala Lumpur Convention Centre, KL, Malaysia.
 13. 7th Channel Network Conference of International Biometric Society during July 10-12, 2019 at Rothamsted Research, Harpenden, UK.
 14. International conference on Emerging Innovations in Statistics & Operation Research (EISOR-2018) in conjunction with 38th Annual Conference of ISPS and 4th Convention of IARS during December 27-30, 2018 at Department of Statistics, Maharshi Dayanand University, Rohtak, India.
 15. Conference Bayesian Statistics in the Big Data Era during November 26-30, 2018 held at Centre International de Rencontres Mathematiques (CIRM), Luminy, Marseille, France.
 16. International Conference on Mathematical Modelling and Scientific Computing (ICMMSC-2018) during July 19-21, 2018 held at Discipline of Mathematics, Indian Institute of Technology Indore, India.
 17. 2nd International Conference of Vijnana Parishad of India on Recent Trends of Computing in Mathematics, Statistics & Information Technologies (RTCMSIT-2018) during March 09-11, 2018 held at Bundelkhand University, Jhansi, India.
 18. National Seminar on Importance of Technology Terminology in Mathematics and its Applications during February 16-18, 2018 sponsored by Commission for Scientific & Technical Terminology (Higher Education - MHRD, Govt. of India) New Delhi held at Nehru Gram Bharti (Deemed to be University), Allahabad.
 19. 3rd International Conference on Statistics for Twenty-First Century 2017 (ICSTC-2017) during December 14-16, 2017 held at Department of Statistics, University of Kerala, Trivandrum, India.
 20. National Conference on Advanced Developments in Theoretical and Applied Statistics (ADTS-2017) during November 13-15, 2017 held at Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi, India.
 21. XXth International Conference of International Academy Physical Sciences during July 14-16, 2017 held at Faculty of Science (Departments of Mathematics, Physics & Chemistry), University College of Science Osmania University, Hyderabad, India.
 22. 2nd Regional Statistics Conference of International Statistical Institute (ISI-RSC 2017) during March 20-24, 2017 held at Westin Resort, Nusa Dua, Bali, Indonesia.
 23. Industry Institute Interaction (III-2017) during February 4, 2017 held at Indian Institute of Technology (ISM) Dhanbad, India.
 24. 3rd International Conference on Applications of Fluid Dynamics (ICAFD-2016) during December 19-21, 2016 held at Department of Applied Mathematics, Indian Institute of Technology (ISM) Dhanbad, India.
 25. XIXth International Conference of International Academy Physical Sciences during October 17-19, 2016, held at Department of Mathematics and Department of Computer Science, D S B Campus, Kumaun D.S.B. Campus, Kumaun University, Nainital, India.
 26. Vth National Conference on Statistical Inference, Sampling Techniques and Related Areas during March 24 - 25, 2015 held at Department of Statistics and Operations Research, Aligarh Muslim University, Aligarh, India
 27. XVIIth International Conference of International Academy Physical Sciences during January 16 - 18, 2015 held at University of Rajasthan, Jaipur, India.

28. 80th Annual Conference of the Indian Mathematical Society (IMS-2014) during December 27-30, 2014 held at Department of Applied Mathematics, Indian School of Mines, Dhanbad, India.
29. 1st Regional Statistics Conference of International Statistical Institute (ISI-RSC 2014) during November 16-19, 2014 held at Sasana Kijang, Kuala Lumpur, Malaysia.
30. XVIth Annual Conference of International Academy Physical Sciences during March 20-22, 2014 held at IIITDM Jabalpur, India.
31. International Conference on Recent Advances in Mathematical Sciences and Applications during December 24-26, 2013 held at Department of Applied Mathematics, RGPV, Bhopal, India.
32. Virtual Participation in 59th ISI World Statistics Congress during August 25-30, 2013 held at Hong Kong, S.A.R. in Hong Kong, China.
33. National Conference on Recent Advances in Mathematics and its Applications (RAMA-2013) during February 14-16, 2013 held at Department of Applied Mathematics, Indian School of Mines, Dhanbad, India
34. International Conference on Bayesian Theory and Application-2013 during January 8-10, 2013 held at Banaras Hindu University, Varanasi, India
35. 21st International Conference on Interdisciplinary Mathematics, Statistics and Computational Techniques, during December 15-17, 2012 held at Panjab University, Chandigarh, India.
36. XVth International Conference of International Academy Physical Sciences, during December 9-13, 2012 held at Rajamangala University of Technology, Thailand.
37. National seminar on Recent Trends in Mathematical Science and Applications, during November 04-05, 2012 Sponsored by UGC held at Govt. PG College, Panna, India.
38. National Seminar on New Dimensions in Statistic: Concept and Issues-2012, during March 2-4, 2012 held at Banaras Hindu University, Varanasi, India.
39. National Conference on Statistical Inference, Sampling Techniques and Related Areas, during February 11-12, 2012 held at Aligarh Muslim University, India.
40. International conference on Statistical Concepts and Methods for the Modern World-2011, during December 28-30, 2011 organized by Applied Statistics Association of Sri Lanka held at Colombo, Sri Lanka.
41. 31st Annual Convention of Indian Society for Probability and Statistics (ISPS) and International Conference on Statistics, Probability and Related Area, during December 19-22, 2011, Cochin, India
42. 10th South Asia Regional Scientific Meeting of the International Epidemiological Association, during May 23-26, 2010 held at Colombo, Sri Lanka
43. International Conference on Recent Developments in Probability and Statistics, during December 21-23, 2009 held at University of Pune, Pune, Maharashtra, India.
44. Annual Conference of Vijnana Parishad of India & National Symposium during December 4-6, 2009 held at JIET, Guna, M.P., India.
45. 22^{ed} M.P. Young Scientist Congress, during February 28 - March 1, 2007 held at S.A.T.I., Vidisha, MP, India.
46. Investigators meeting during May 23-24, 2009 held at Zuri Varca White Sand Resort, Goa, India.
47. 21st M.P. Young Scientist Congress, during February 28 - March 1, 2006 held at A.P.S. University, Rewa, M.P., India.
48. 59th Annual Conference of the Indian Society of Agricultural Statistics, during November 11-13, 2005 held at Sher-e-Kashmir University of Agricultural Sciences & Technology, SKUAST, Jammu, India.
49. National Seminar on Mathematics, during April 22-24, 2005 held at Department of Mathematics, St. Xavier's College, Ranchi, India.
50. 20th M.P. Young Scientist Congress, during February 28 - March 1, 2005 held at Vikram University, Ujjain, MP, India.

Details of Publications:***i). Published/Accepted in Indexed Journal:***

1. Kumar, N., Majumdar, T., Bhattacharjee, A. and **Vishwakarma, G.K.**, Accelerated Failure Time model using MCMC for high dimensional survival data. *International Journal of Biomathematics*, (Accepted), **2025**, ISSN: 1793-7159, World Scientific. (SCI-E/Q2).
2. Verma, M.K., Yadav, S.K., Varshney, R. and **Vishwakarma, G.K.**, An optimal strategy for estimating the population mean in stratified random sampling under an auxiliary attribute. *Life Cycle Reliability and Safety Engineering*, (Accepted), **2025**, ISSN: 2520-1360, Springer, (SCOPUS).
3. **Vishwakarma, G.K.**, Kumari, P., Bhattacharjee, A. and Ong, S.H., Bayesian classifier based on cancer prognostic markers using accelerated failure time model with frailty effect. *Quality & Quantity*, **2025**, <https://doi.org/10.1007/s11135-025-02092-z>, ISSN: 1573-7845, Springer. (SCI-E/Q2).
4. Bhattacharjee, A., Kumari, P. and **Vishwakarma, G.K.**, Advanced bayesian survival modeling for lung adenocarcinoma prognosis: The afthd R package and shiny application. *Brazilian Journal of Biometrics*, 43(3), 1-13, **2025**, <https://doi.org/10.28951/bjb.v43i3>, ISSN: 2764-5290, International Biometric Society, Brazil. (E-SCI/SCOPUS).
5. Bhattacharjee, A., Kumari, P. and **Vishwakarma, G.K.** and Tank, F., afthd: Bayesian accelerated failure time model for high-dimensional time-to-event data. *Japanese Journal of Statistics and Data Science*, **2025**, <https://doi.org/10.1007/s42081-025-00301-5>, ISSN: 2520-8764, Springer Nature. (E-SCI/SCOPUS).
6. Soni, R., Alam, M.S. and **Vishwakarma, G.K.**, Prediction of InSAR deformation time-series using improved LSTM deep learning model. *Nature Scientific Reports*, **2025**, <https://doi.org/10.1038/s41598-024-83084-1>, ISSN 2045-2322, Nature Portfolio, (SCI-E/Q1).
7. Yadav, S.K., **Vishwakarma, G.K.** and Singh A., Efficient Searls predictive estimators for mean under ranked set sampling: An application to COVID-19 data. *International Journal of System Assurance Engineering and Management*, <https://doi.org/10.1007/s13198-024-02673-5>, **2025**, ISSN: 0976-4348, Springer Nature. (E-SCI/SCOPUS).
8. Verma, M.K., Yadav, S.K., Varshney, R., and **Vishwakarma, G.K.**, Improved estimation strategy of mean using linear cost function under stratified sampling. *Quality & Quantity*, <https://doi.org/10.1007/s11135-024-02021-6>, **2024**, ISSN: 1573-7845, Springer. (SCI-E/Q1).
9. Verma, M.K., Yadav, S.K., Varshney, R., and **Vishwakarma, G.K.**, Computation strategy for population mean in stratified random sampling: A problem of budget constraint. *Statistical Journal of the IAOS*, <https://doi.org/10.1177/18747655251335756>, **2025**, ISSN: 1874-7655, IOS Press, Inc. (E-SCI/SCOPUS).
10. Bhattacharjee, A., Rajbongshi, B., and **Vishwakarma, G.K.**, jmBIG: enhancing dynamic risk prediction and personalized medicine through joint modeling of longitudinal and survival data in big routinely collected data. *BMC Medical Research Methodology*, <https://doi.org/10.1186/s12874-024-02289-0>, 24, 172, **2024**, ISSN: 1471-2288, Biomed Central Ltd & Springer. (SCI-E/Q1).
11. **Vishwakarma, G.K.**, Bhattacharjee, A., Rajbongshi, B. and Tripathy, A., Censored imputation of time to event outcome through survival proximity score method.

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- Journal of Computational and Applied Mathematics*, 451, 116103, **2024**, <https://doi.org/10.1016/j.cam.2024.116103>, ISSN: 0377-0427, Elsevier, (SCIE/Q1).
12. Singh, A. and **Vishwakarma, G.K.**, A class of ratio and product types estimators of mean of a sensitive variable using ranked set sampling. *Sankhya-B*, <https://doi.org/10.1007/s13571-024-00338-8>, **2024**, ISSN: 0976-8394, Springer Nature. (E-SCI/SCOPUS).
 13. Singh, A., Kulkarni, H., Smarandache, F. and **Vishwakarma, G.K.**, Computation of separate ratio and regression estimator under neutrosophic stratified sampling: an application to climate data. *Journal of Fuzzy Extension and Applications*, doi.org/10.22105/jfea.2024.422211.1313, **2024**, ISSN: 2783-1442, Research Expansion Alliance, (SCOPUS).
 14. Alam, Md. S., Kumar, D. and **Vishwakarma, G.K.**, A review on advances in persistent scatterer interferometry and proposing a novel method for phase optimization of distributed scatterers pixels. *Journal of Engineering Mathematics*, 145(1):1-25, **2024**, <https://doi.org/10.1007/s10665-024-10354-2>, ISSN: 1573-2703, Springer Nature, (SCIE/Q3).
 15. Bhattacharjee, A., **Vishwakarma, G.K.**, Tripathy, A. and Rajbongshi, B., Competing risk multistate censored data modeling by propensity score matching method. *Nature Scientific Reports*, 14, 4368, **2024**, <https://doi.org/10.1038/s41598-024-54149-y>, ISSN 2045-2322, Nature Portfolio, (SCI-E/Q1).
 16. Singh, H.P., Joshi, H. and **Vishwakarma, G.K.**, Shrinkage estimation of θ^α in gamma density $G(1/\theta, p)$ using prior information. *Journal of Engineering Mathematics*, 145(1): 1-25, **2024**, <https://doi.org/10.1007/s10665-023-10329-9>, ISSN: 1573-2703, Springer Nature, (SCIE/Q3).
 17. Laala, B., Elsayah, A.M., **Vishwakarma, G.K.**, and Fang, K.T., Integrating clustering and sequential analysis for improving the spectral density estimation and dependency structure of time series. *Communications in Statistics-Simulation and Computation*, <https://doi.org/10.1080/03610918.2024.2434144>, **2024**, ISSN: 0361-0918, Taylor & Francis, Inc, Philadelphia. (SCI-E/Q3).
 18. **Vishwakarma, G.K.** Weighted strategy for estimation of finite population mean in presence of auxiliary information. *Measurement: Interdisciplinary Research and Perspectives*, 22, 2327010, **2024**, <https://doi.org/10.1080/15366367.2024.2327010>, ISSN: 1536-6359, Taylor and Francis, (ESCI/SCOPUS).
 19. Yadav, S.K., **Vishwakarma, G.K.** and Sharma, D.K., A computational strategy for estimation of mean using optimal imputation in presence of missing observation. *Nature Scientific Reports*, 14, 6433, **2024**, <https://doi.org/10.1038/s41598-024-57264-y>, ISSN 2045-2322, Nature Portfolio, (SCI-E/Q1).
 20. Bhattacharjee, A., **Vishwakarma, G.K.**, Rajbongshi, B.K., and Tripathy, A., MIIPW: An R package for generalized estimating equations with missing data integration using a combination of mean score and inverse probability weighted approaches and multiple imputation. *Expert Systems with Applications*, <https://doi.org/10.1016/j.eswa.2023.121973>, 238, 121973, **2024**, ISSN: 0957-4174, Elsevier, USA. (SCI-E/Q1).
 21. Singh, H.P., **Vishwakarma, G.K.**, Joshi, H. and Gupta, S., Shrinkage estimation for square of location parameter of the exponential distribution with known coefficient of variation. *Journal of Computational and Applied Mathematics*, <https://doi.org/10.1016/j.cam.2023.115489>, 437, 115489, **2024**, ISSN: 0377-0427, Elsevier, USA. (SCIE/Q1).
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22. **Vishwakarma, G.K., Kumar, A. and Kumar N.**, Two-stage unrelated randomized response model to estimate the prevalence of a sensitive attribute. *Computational Statistics*, 39, 865–890, **2024**, <https://doi.org/10.1007/s00180-023-01326-8>, ISSN: 1613-9658, Springer Nature. (SCI/Q2).
23. **Yadav, S.K., Arya, D., Vishwakarma, G.K., and Verma, M.K.**, Generalized ratio-cum-exponential-log ratio type estimators of population mean under simple random sampling scheme. *Lobachevskii Journal of Mathematics*, 44(9), 3888–3900, **2023**, <https://doi.org/10.1134/S1995080223090445>, ISSN: 1818-9962, Russian Academy of Sciences and Kazan Federal University and Springer. (E-SCI/SCOPUS).
24. **Vishwakarma, G.K., Gupta, S., and Elsayah, A.M.**, Shrinkage estimation of location parameter for uniform distribution based on k -record values. *Sankhya B*, 85 (2), 405–419, <https://doi.org/10.1007/s13571-023-00313-9>, **2023**, ISSN: 0976-8394, Springer Nature. (E-SCI/SCOPUS).
25. **Vishwakarma, G.K., Bhattacharjee, A., Tank, F. and Pashchenko, A.F.**, Subgroup identification of targeted therapy effects on biomarker for time to event data. *Cancer Biomarkers*, 38, 413–424, **2023**, <https://doi.org/10.3233/CBM-230181>, ISSN: 1875-8592, IOS Press, Inc., USA. (SCI-E/Q3).
26. **Shukla, S., Singh, A. and Vishwakarma, G.K.**, Predictive estimation for mean under median ranked set sampling: an application to COVID-19 data. *Indian Journal of Pure & Applied Mathematics*, **2023**, <https://doi.org/10.1007/s13226-023-00470-7>, ISSN: 0019-5588, Springer Nature. (SCI-E/Q3).
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