


Ramanujan College

FACULTY PROFILE

FIRST NAME	Dr Birjesh	MIDDLE NAME (if any)		PHOTOGRAPH (ATTACH BELOW) 
LAST NAME	Kumar			
DEPARTMENT	Statistics			
DESIGNATION	Assistant Professor			
GENDER	Male			
DATE OF BIRTH (DD/MM/YYYY)	03/04/1982			
LANGUAGE PROFICIENCY	Hindi, English			
ADDRESS	A-115 Ganga Sagar Colony, Ganga Nagar, Meerut U.P-250001			
MOBILE	+91- 9837367217			
EMAIL	birjesh.kumar@ramanujan.du.ac.in			
EDUCATIONAL QUALIFICATIONS:				
DEGREE	INSTITUTION	YEAR		
B.Sc	C.C.S University, Meerut	2002		
M.Sc	C.C.S University, Campus, Meerut	2004		
M.phil	C.C.S University, Campus, Meerut	2005		
Ph.D	C.C.S University, Meerut	2012		

CAREER PROFILE: TEACHING EXPERIENCE

- Working as an Assistant Professor in Department of Statistics, Ramanujan College, University of Delhi, Delhi from 20th July 2015.
- Worked as a Guest faculty in Department of Statistics, Lady Sri Ram(LSR) College, University of Delhi in 2018.
- Worked as a Guest faculty in Department of Statistics, PGDAV College, University of Delhi in 2017.
- Worked as an Assistant Professor at J.P Institute of Engineering & Technology Meerut, from 14th Feb 2013 to 3rd March 2015.
- Worked as an Assistant Professor at IIMT Management College, Meerut from 28th July 2006 to 13th Feb 2013.

ADMINISTRATIVE ASSIGNMENTS: (List any administrative roles or responsibilities you have held)

- Working as a **Deputy Superintendent** of Examinations at Ramanujan College from Sept 2024.
- Working as a member of **Proctorial Committee** from July 2017 to till date.
- Worked as **Organizing Secretary** in UGC sponsored National Conference on Advance Statistics and Applied Sciences conducted by Department of Statistics Ramanujan College, University of Delhi during 30-31 March 2022.
- Worked as **Organizing Secretary** in UGC sponsored National Conference on Emerging trends in Statistics and Data sciences conducted by Department of Statistics Ramanujan College, University of Delhi during 6th-7th September 2019.
- Worked as a **member of Organizing Committee** of one month Induction Programme sponsored by MHRD, Government of India, conducted by the Teaching Learning Center (TLC) Ramanujan College, University of Delhi during May-June 2019.
- Worked as a **chief Warden** in J.P Institute of Engineering & Technology Meerut, from July 2013 to September 2014.
- Worked as a **member of Proctorial Board** at IIMT Management College Meerut from August 2008 to Dec 2013.
- Worked also as a **member of Discipline Committee** from Sept 2006 to June 2010 at IIMT Management College Meerut.

AREAS OF INTEREST / SPECIALIZATION: (Highlight your specific areas of interest or fields of specialization within your subject area)

Life Testing and Industrial Statistics, Statistical Quality Control, Bayesian Statistics

SUBJECTS TAUGHT: (List all the subjects you have taught)

- Computer Based Numerical and Statistical techniques(CBNST)
- Computer Based Optimization Techniques(CBOT)
- Modeling and Simulation,
- Business Statistics,
- Operation Research,
- Research Methodology
- Engineering Mathematics-III

- Numerical Analysis
- Applied Statistics
- Linear Models
- Econometrics
- Statistical methods
- Descriptive Statistics
- Sampling Distribution
- Statistical Quality Control
- Statistical Data Analysis using R Programming
- Total Quality Management

PUBLICATIONS PROFILE: RESEARCH PAPERS (List your published research papers, including the title, journal, and year)

- **Kumar B, Kumar R, Kumar T (2024).**” Generalised Fermatean fuzzy numbers-based exponentially weighted moving average control chart” Published in International Journal Productivity and Quality Management, Vol. 43, No. 4, 2024
- **Kumar B,** Agarwal S, Heena J, Antim, Yashoda and Tanwar N (2024) ” Factors affecting mutual fund investors in India: A review” Published in International Journal of Agriculture Extension and Social Development, Volume 7; SP-Issue 8; August 2024; Page No. 106-110.
- **Kumar B,** Kumar S, Tripathi R, Kumar M.(2022). “Fuzzy inventory policy for perishable products with stock level dependent demand, constant holding cost and constant lead time” Published in AIP Conference Proceedings, volume-2481,Issue-1 (2022), <https://doi.org/10.1063/5.0105389>.
- **Kumar B,** Singh R.B, Kumar R, Kumar T, Gupta V.(2022). “C- Control Charts using Intuitionistic Fuzzy Numbers and Weighted Defuzzification Method” Published in International Journal of Early Childhood Special Education.Vol.14, No-4, pp 917-924,ISSN: 1308-5581(DOI: 10.9756/INT-JECSE/V14I4.120).
- **Kumar B,** Singh R.B, Kumar Rajiv, Kumar Tanuj (2021). “Modified Mixed Exponentially Weighted Moving Average and Moving Average Charts for Process Mean Monitoring” Published in International Journal of Research in Social Sciences. Vol. 11, Issue-5,pp 210-228, ISSN: 2249-2496.
- **Kumar B,** Tomer S and Shukla A.K (2021). “Sensitivity Analysis of Non-Conformities when Quality Standard is assumed as Random variable” Published in International Journal of Agricultural and Statistical Sciences. Vol. 17, No. 2, pp. 783-789, 2021, ISSN: 0973-1903, e-ISSN: 0976-3392.
- **Kumar B,** Kumar K., Ravi.V (2021) “Study Of Reliability Measures Of A Two Unit System With Inspection Online /Offline Repairs Using Regenerative Point Techniques” International Journal of Operations Research Vol-18(3) P.P-55-66.

- **Kumar B**, Yadav D.K., Shukla A.K, Tomer S.(2018) “Predictive Estimation Of Finite Population Mean Using Coefficient Of Kurtosis And Median Of An Auxiliary Variable Under Simple Random Sampling Scheme” International Journal of Mathematical Archive-9(5),2018, 137-143.
- **Kumar B.** (2017) “Sensitivity Analysis of Sequential Predictive Normal Testing Procedures” International Journal of Linguistics and Computational Applications, volume 1-ISSN No-(2394-6393).
- Kumar S. , **Kumar B.** Choudhary A.(2014) “Reliability Analysis of a discrete life time model” International Journal of computer application USA, volume 86-No.10(0975-8887).
- Goel J., **Kumar B.** (2013) “On the Effect of Random Variations in the Parameter of Arrival and Service Time Distributions on Various Queue Characteristics in (M/M/1): (/FIFO) Queue System Model” International Journal of computer application USA, volume 83-No.14 (0975-8887).
- **Kumar B.** ,Chandra A.(2013) “Posterior Analysis of Sequential Normal Testing Procedure ” International Journal of computer application USA, volume 70-No.17(0975-8887).
- Chandra A., Sharma K.K, **Kumar B.** (2010) “A Study on Robust character of Sequential Normal Testing Procedure” International Transactions in Applied Sciences, Volume 2, No. 4, page no.785-796.

PUBLICATIONS PROFILE: BOOK CHAPTERS (List your published book chapters, including the title, publisher, ISBN and year)

- **Kumar B.**, Yadav D. K, Singh U, Bala I (2023) “ The Role of Internet of things(IoT) in Healthcare Application and Implementation” published by Springer with ISBN 978-981-99-6472-7.
- **Kumar B.**, Yadav D. K.,Singh R. (2020) “Applications of Machine Learning Techniques for E-Learning in Higher Education.” published by SHARP MIND Publisher and Distributors in 2020 with ISBN No-978-81-947735-1-1.
- **Kumar B.**, Shukla A.K, Tomer, S. (2020) “Goodness of fit to the real data set using classical Inference” published in proceeding of Conference - Emerging Trends in Statistics and Data Science Book Age Publications,Vol-1,No-10,page no.78-87.

PUBLICATIONS PROFILE: OTHERS (Mention any other relevant publications details)

Patents Filed/Awarded:

Title of invention – Data Analytics in Supply Chain Management with Reverse Logistics Using Machine Learning Techniques.

Edited Books

- Edited a book entitled- “Effects of COVID-19 Pandemic in India” published by SHARP MIND Publisher and Distributors in 2020 with ISBN No-978-81-947735-1-1
- Edited a book entitled- “Emerging Trends in Statistics and Data Sciences” published by Book Age Publications in 2020 with ISBN No-978-93-88181-24-2.

CONFERENCE/WORKSHOPS/TRAINING ATTENDED AS FACULTY MEMBER

- One Week Faculty Development Programme on Co-creating Moocs “ Hands on training for designing and developing Moocs” under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi and sponsored by MHRD, Government of India held from 10-16 February 2020.
- Two week Faculty Development Programme on “ Recent Advances in Research Methodology” under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development (MHRD) at Ramanujan College, (University of Delhi), New Delhi held from **17-28 January 2020**.
- Seven days Faculty Development Programme Teachers, Teaching and Taught: Discovering New Meaning, Relationship and Purpose Sponsored by UGC and NAAC organized by Internal Quality Assurance Cell and Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi held from **1-7 January 2020**.
- Participated in International Conference On Applicable Mathematics with the theme “Network Science “ Sponsored by UGC and SERB, and Organized by Department of Mathematics, Ramanujan College, University of Delhi, , New Delhi held during **19-21 December 2019**.
- Participated in one month Induction Training Programme for faculty in Universities/Colleges/Institutes of higher Education conducted by the Teaching Learning Center(TLC) sponsored by MHRD under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ramanujan College, University of Delhi, New Delhi from **April 9 to May 5, 2018**,
- Participated in two week Interdisciplinary Faculty Development Programme on “ Data Analysis using Software Packages” held at Department of Statistics, Hindu College, University of Delhi in collaboration with Teaching Learning Center(TLC), Ramanujan College, University of Delhi during **12-24 December 2018**.
- Participated in one week Faculty Development Programme on ICT Integrated Research in Mathematical Sciences on **24-30 September ,2018**, organized by Ramanujan Center for Applied Mathematics and Research and Teaching Learning Center(TLC), Ramanujan College, University of Delhi, New Delhi and sponsored by MHRD, Government of India.
- Participated in two day national workshop on “Biostatistics” held on **9-10 March, 2017** organized by Department of Botany and Department of Mathematics, Zakir Husain College, University of Delhi.

- Participated in One week National Faculty Development Program “Reflections on Emerging Pedagogy in Higher Education and Qualitative Research ” during **18-24 November 2015** organized by Department of Commerce , Ramanujan College, University of Delhi, New Delhi.
- Participated one day workshop on “Human values and Professional Ethics” sponsored by UP Technical University, Lucknow held on **20th March 2010** at IIMT Management College, Meerut.
- Participated in a National seminar on “Contemporary Issues in IT and E-Business” organized by IIMT Management college, Meerut on **31st March 2007**.
- Participated in one week Faculty Development Program for management teachers on "Human Quality Development" sponsored by AICTE organized by Department of Management studies held at IIMT Management College, Meerut during **25-30 March 2007**.

INVITED LECTURES AS RESOURCE PERSON AND PAPER PRESENTATIONS:

- Presented paper entitled “ A study on Sensitivity Analysis of Sequential Normal Testing Procedure ”online in 2019 MTMI International conference, at Avanti palms resort and conference center at Orlando Florida, USA during September 20-22,2019.
- Presented paper entitled “Sensitivity Analysis of Sequential Predictive Normal testing procedure in 9th International Conference on Quality ,Reliability, Infocom Technology and Business Operations(Trends and Future Directions) Held during **27-29 December 2018**,at University of Delhi, India (**Co-organized by Lulea University of Sweden**).
- Presented paper entitled “Sensitivity Analysis of C- chart in terms of OC and ARL” online in 2018 MTMI International conference, by Modern Technology and Management Institute (MTMI) Inc.,USA held during **22-23 December,2018** at Hotel IBIS, Bangkok.
- Participated in two day national conference on “ Leadership in Organization: Contemporary Concerns and Key Developments” organized by Department of Management Studies and Teaching Learning Center(TLC),Ramanujan College, University of Delhi during **22-23 March 2018**.
- Participated in one day conference on “Quality Assurance in Higher Education” organized by Internal Quality Assurance Cell of Ramanujan College, University of Delhi at India International Centre, New Delhi on **26th February 2018**.
- Presented a Paper entitled “Posterior Analysis of Sequential Normal testing procedure” at the UGC Sponsored National Conference on Recent Statistical Computing techniques and their Application(RSCTA-2016) during **11-12 March, 2016** organized by Department of Statistics and Department of Computer Science, University of Delhi, New Delhi.
- Presented a Paper entitled “Sensitivity Analysis of Sequential Normal testing Procedure ” at the International Conference on Statistics and related Areas for Equity , Sustainability and development (SRAESD-2015)” in Conjunction with XXXV Annual Convention of Indian Society for probability and Statistics (ISPS) during **28–30 November, 2015** organized by Department of Statistics, University of Lucknow, Lucknow.

RESEARCH PROJECTS (MAJOR GRANTS/RESEARCH COLLABORATION)

- Worked as an Principal Investigator in a (Three Year) Major Research project under Star Innovation Project scheme of University of Delhi entitled-“**Reliable Data On The Real World of Innovations**” sponsored by University of Delhi from March 2016 to November 2020.

OTHER ACTIVITIES: (Include any additional relevant activities or contributions not covered in the above sections.)