

Dr. Surendra Kumar

Assistant Professor (Academic level-12)

Department of Mathematics,

Mahamaya Govt. Degree College Mahona, Lucknow– 226203

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Mobile: 09454320846, 8887929032

Date of Birth: 01.04.1983

Place of Birth: Bahraich, Uttar Pradesh, India

**Academic Career:**

S. No.	Institution	Position/Designation	Period	
1.	University of Lucknow	Guest Lecturer (under JRF/SRF Scheme)	16.07.2008	31.03.2010
2.	Kendriya Vidyalaya Mungaoli, Ashoknagar M.P.	PGT Mathematics	16.01.2011	03.09.2013
3.	Govt. Degree College Pihani, Hardoi	Assistant Professor	05.09.2013	18.07.2022
4.	Mahamaya Govt. Degree College Mahona, Lucknow	Assistant Professor	19.07.2022	Till date

Academic Profile:

Exam Passed	University/Board/institute	Subjects	Year
High School	CBSE, New Delhi	Hindi, English, Mathematics, Science, Social Science,	1997
Intermediate	U. P. Board, Allahabad	Hindi, English, Mathematics, Physics, Chemistry	1999
B. Sc.	University of Allahabad	Mathematics, Chemistry, Physics	2003
M. Sc.	University of Allahabad	Mathematical Statistics	2005
GATE	IIT Joint Examinations for GATE (Reg no: MA502048)	Mathematical Sciences	2006
NET	Joint CSIR-UGC (Roll no: 407568)	Mathematical Sciences	Dec 2007
NET-JRF	Joint CSIR-UGC (Roll no: 406952)	Mathematical Sciences	June 2008
Ph.D.	University of Lucknow, Lucknow	Mathematics	2016

Teaching and Research Experiences:

S. No.	Description of Experience			Institution
1.	Teaching Experience	U.G	15 Years	1. University of Lucknow 2. Government Degree College Pihani, Hardoi 3. Mahamaya Govt. Degree College Mahona, Lucknow
2.	Research Experience		16 Years	1. University of Lucknow 2. Government Degree College Pihani, Hardoi 3. Mahamaya Govt. Degree College Mahona, Lucknow

Ph.D. and research interest:

S. N.	Event	Topic	Supervisor	Department	Institute
1.	Ph.D. Thesis	MHD flow through porous medium	Dr. U.S. Rajput	Department of Mathematics & Astronomy	University of Lucknow
2.	Research Interests	Sampling, Regression Analysis, Biostatistics, Fluid Mechanics, Operation Research, Mathematical Modelling	---	---	---

Memberships of Academic society:

S. No.	Name of Academic Body	Membership Number
1.	International Academy of Physical Sciences, Allahabad, Life membership	N0957
2.	Bharat Ganita Parisad Lucknow University Lucknow	

Awards/Fellowships received:

- 1- Junior research fellowship (JRF) from 16.09.2008 to 15.09.2010.
- 2- Senior research fellowship (SRF) from 16.09.2010 to 15.01.2011

National/International Collaborations:

S. No.	Collaborator	Institution
1.	Dr. U S. Rajput	Department of Mathematics & Astronomy, University of Lucknow
2.	Dr. Subhash Kumar Yadav	Department of Statistics, Babasaheb Bhimrao Ambedkar University, Lucknow
3.	Prof. S.S. Mishra	Department of Mathematics and Statistics, Dr RML Avadh University, Ayodhya, Uttar Pradesh
4.	Prof. Dinesh Sharma	University of Maryland Eastern Shore, USA
5.	Dr. Gagan Kumar	Department of Economics, Govt. PG College Musafirkhana, Amethi
6.	Dr. Lakhan Singh	Department of Statistics, H. N. B. G. University, Garhwal, Srinagar, UK
7.	Dr. Prem Prakash Mishra	Department of Mathematics, National Institute of Technology, Chumukedima, Nagaland
8.	Dr. Rajesh Gupta	Global Data insight & Analysis (GDIA), Ford Motor Company, 1

Reviewer of National and International Journals:

S. No.	Name of Journal
1.	International Journal of Engineering Mathematics (Hindawi Publishing Corporation)
2.	An international Journal of Mathematical Demography

Conferences / Seminars/Webinar organized/ Session Chaired:

S. No.	Details of Conference/Webinar	Organizer	Position
1.	Role of NEP-2020 in transformation of Higher Education, 19 March 2023	Mahamaya Govt. Degree College Mahona, Lucknow	Organizing Secretary
2.	Action plan and suggestions for preventing commercialization of education 30 August 2020	Govt. Degree College Pihani, Hardoi,	Organizing Secretary
3.	Covid-19: Challenges & Possibilities” on 18 May 2020	Govt. Degree College Pihani, Hardoi,	Convener
4.	Quality improvement in Higher education: challenges and Remedies on 27 January 2018	Govt. Degree College Pihani, Hardoi,	Convener
5.	Role of Agriculture in the Development of Rural India on February 19-20, 2016	Govt. Degree College Pihani, Hardoi,	Convener
6.	Role of ICT in Quality Improvement of Higher Education and Research on February 22-23, 2014	Govt. Degree College Pihani, Hardoi,	Member Organizing Committee

List of Conferences/ Seminar:

S.N.	Paper presented in the Conference/Seminar	National/ International
1.	Computation strategy for efficient estimation of population mean using auxiliary parameters, international conference on Innovative research in Science, Management and Technology organized by Directorate of international affairs, Institute of evening studies, Jai Narayan Vyas University, Old Campus, Jodhpur, Rajasthan, 05-07, January 2024	International
2.	Optimal Strategy for Improved Estimation of Sugarcane Yield, International Conference on Innovations in Science, Management and Technology, organized by Department of Business Administration, Chaudhary Devi Lal University, Sirsa, Haryana, 17-18, August 2023.	International
3.	Improved Estimation of Population mean using known auxiliary parameters: International Conference on Innovations in Management, Science and Technology (ICIMST) organized by Department of Computer Science and Electronic, University of Science and Technology, Meghalaya, India 5-6, August 2022	International
4.	Employment and wages in Rural India, National Seminar on Green Economy and Sustainable Development: Concept of new India organized by Govt. Degree College Jakhini, Varanasi, India, 26-27 march 2022	National

5.	<i>Role of Science and Technology in Rural Development</i> , Mercantilism Role of Science and Technology in Socio-Economic Development, organised by Dr. BR Ambedkar Degree College Mainpuri, 2016	National
6.	<i>Human Happiness in Indian Society, Tourism</i> , Mercantilism and Human Happiness: Challenges & Opportunity, organised by SS PG College, Mumukshu Ashram, Shahjahapur, 2016	International
7.	<i>Science and Technology for Rural India</i> , Role of Agriculture in the Development of Rural India, organised by Govt. Degree College Pihani, Hardoi, 2016	National
8.	<i>New Education Policy: Issues and Challenges</i> , Social Transformation in India, organised by Savitri Bai Fule Govt. PG College Chakia-Chandauli, 2015	International
9.	<i>The Nawabs of Awadh: Their lives and Their Legacy</i> , The Legacy of Awadh, organised by Maharaja Bijli Pasi Govt. PG College Aashiyana, Lucknow, 2016	International
10.	Radiation and chemical effects on MHD flow through porous media past an impulsively started exponentially accelerated vertical plate with variable temperature in the presence of heat generation, Role of ICT in Quality Improvement of Higher Education and Re-search, organised by Govt. Degree College Pihani, Hardoi, 2014	National
11.	हिंदी साहित्य में शिक्षाविदों की भूमिका, भारतीय संस्कृत और हिन्दी साहित्य में सर्वपल्ली राधाकृष्णन की भूमिका, आयोजक केवलपत्नी राम आसरे महाविद्यालय सिकंदरपुर लखनऊ 2016	National
12.	मेक इन इंडिया को साकार करने में कौशल विकास कार्यक्रम की भूमिका, Skill Development in India: Challenges and Possibilities organised by SGN Govt. PG College Muhammdabad. Gohna, Mau, 2016	National
13.	<i>Rotation and chemical reaction effects on MHD flow through porous media past an impulsively started vertical plate with variable mass diffusion</i> , National Conference on Role of Mathematics in Advancement of Science & Technology. 18-20 Nov 2013.	National
14.	<i>Radiation effects on MHD flow through porous media past an impulsively started infinite oscillatory vertical plate with variable temperature</i> , National seminar on current trends in mathematics with special focus on operation research and computers, RML Avadh University, Faizabad, India, March 28-29, 2010.	National

List of Books/Edited Books/Chapter published:

S.N.	Detail of the book	National/ International	Authorship
1.	Quality Improvement in Higher Education: Challenges and Remedies, ARCADIA, Lucknow ISBN No-978-81-9221-682-9	National	Editor
2.	Role of Agriculture in the development of Rural India, Prabhshree Vishvabharti Prakashan, Allahabad ISBN No-978-93-83519-35-4	National	Editor
3.	Science and Technology for Rural India, Dynamics of Indian Agriculture, Prabhshree Vishvabharti Prakashan, Allahabad ISBN No-978-81-92630-78-6	National	chapter

4.	भारत में नई शिक्षा नीति की चुनौतियाँ एवं समाधान, भारत में सामाजिक रूपांतर, प्रभाश्री विश्वभारती प्रकाशन, इलाहाबाद, ISBN No-978-81-926307-3-1 (2016)	National	chapter
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List of Workshops attended:

S. No.	Detail of Workshop/Orientation/Refresher	Duration
1.	Interdisciplinary Refresher Course on "Research, Writing, and Analysis" UGC-MMTTC, Indian Institute of Technology (ISM) Dhanbad, Jharkhand from 11 November 2024 TO 22 November 2024.	Two Week
2.	Faculty Development Programme on "RESEARCH METHODOLOGY" from October 01- October 15, 2020 Teaching Learning Centre, Ramanujan College, University of Delhi	Two Week
3.	REFRESHER COURSE, Research Methodology, 03.10.2018 to 13.10.2018	Two Week
4.	REFRESHER COURSE, HRDC, University of Lucknow, 15.06.2017 to 05.07.2017	Three Week
5.	RUSA /NAAC /PFMS Workshop, Capacity Building for IQAC in Higher Education: 2017 organised by Deptt. of Higher Education & U.P. State Council of Higher Education, Lucknow	One Day
6.	ORIENTATION COURSE, Academic Staff College, University of Lucknow, 01.01.2015 to 28.01.2015	Four Week
7.	National workshop on advanced LateX and PSTricks at Academic Staff College, University of Lucknow, Lucknow	One Week
8.	National workshop on Introduction to CAS (Computer Algebra system) at Bhaskaracharya Pratisthan, Pune, Maharashtra 27 th -31 st	One Week
9.	National workshop on advanced LateX and PSTricks at Bhaskaracharya Pratisthan, Pune, Maharashtra 22 nd -26 th November	One Week

List of Papers Published in Scopus/WOS/UGC Care Listed indexed Journals:

S.N.	Details of the paper published	Indexed in	Impact Factor
1.	Brij Mohan Yadav, Gagan Kumar, Dushyant Tyagi and Surendra Kumar (2024) , New Log- Type Product Estimator of Population Variance Utilizing Auxiliary Information, MATEMATIKA: Malaysian Journal of Industrial and Applied Mathematics, ISSN: 0127-9602 (Communicated)	ESCI	
2.	Brij Mohan Yadav, Gagan Kumar, Dushyant Tyagi and Surendra Kumar (2024) , Innovative Estimator for Estimating Population Variance Using Additional Information, Jnanabha, ISSN- 0304-9892 (Communicated)	UGC Care Listed	
3.	Mehdi Ali, S.K. Yadav, Rajesh Kumar Gupta, Surendra Kumar and Sukhvir Singh (2024) , Naive Modified Ratio Estimator of Population Mean Using Linear Combination of Robust and Non-Robust Auxiliary Parameters, Lobachevskii Journal of Mathematics, ISSN: 1995-0802(Communicated)	Scopus ESCI	0.949

4.	Surendra Kumar , Shakti Kumar, Mehdi Ali, Subhash Kumar Yadav, Surendra Kumar, Lakhan Singh (2024), Efficiency Comparison of Different Ratio Estimators of Population Variance: A Study on Sugarcane Data, Leadership, Education, Personality: An Interdisciplinary Journal,19(1), 552-561, ISSN-2524-6178	UGC Care Listed	
5.	Rajesh Gupta, M Ali, S K Yadav, G Kumar, Surendra Kumar (2023), Improved Estimation of The Population Mean by Integrating Additional Auxiliary Parameters, Korean Journal of Physiology and Pharmacology, 28 (1), 205-210, ISSN:1226-4512	SCOPUS	
6.	Mehdi Ali, Subhash Kumar Yadav, Rajesh Kumar Gupta, Surendra Kumar , Lakhan Singh (2023), Enhancement Of Class of Estimators for Estimating Population Mean Using Known Auxiliary Parameters, International Journal of Agricultural and Statistical Sciences, 19 (2), 527-534, ISSN-0076-3302	SCOPUS ESCI	0.156
7.	Alok Kumar Shukla, Vishwas Tiwari, Surendra Kumar , Gagan Kumar, Priyanka Bharti (2022), Linear Mixed Regression Models for Age of Hen At Optimal Production of Eggs, International Journal Of Food and Nutritional Sciences, 11 (12), 16701-16711, ISSN 2319-1775	UGC Care Listed	
8.	Surendra Kumar , M Ali, SK Yadav (2022), Assessing the Efficiencies of Different Ratio Estimators for Estimating Average Production of Sugarcane Yield, International Journal of Food and Nutritional Sciences 11 (11), 5010-501, ISSN 2319-1775	UGC Care Listed	
9.	PKSangal, Richa Sharma, Lakhan Singh, Subhash Kumar Yadav, Surendra Kumar (2022), Two Efficient Class of Ratio Estimators for Population Mean Estimation Using Auxiliary Information In Simple Random Sampling International Journal of Agricultural and Statistical Sciences 18 (1), 1271-1276, ISSN-0976-3392	SCOPUS ESCI	0.156
10.	SK Yadav, D Sharma, A Yadav, Surendra Kumar (2021). Optimal Searls Estimation of Population Variance under Systematic Sampling Scheme <i>International Journal of Computing Science and Mathematics</i> , 16 (3), 239-251, ISSN-1752-5063	SCOPUS	1.402
11.	Surendra Kumar , Gagan Kumar, Sudipta Saha, Padmeswar Doley, Lakhan Singh (2021), Generalized class of population mean in agriculture surveys using known auxiliary parameters and sample size. <i>International journal of Agricultural and Statistical Sciences</i> , Vol. 17(2), 617-623, ISSN-0976-3392	SCOPUS ESCI	0.156
12.	Yadav, S.K., Surendra Kumar , Singh, L. and Thanvi, J. (2020). Efficient estimation of population variance using robust measures, <i>international journal of Agricultural and Statistical Sciences</i> , 16, 1, 299-306. ISSN-0976-3392	SCOPUS ESCI	0.156
13.	Surendra Kumar (2020), व्यक्तित्व विकास में योग का महत्व, <i>Think India</i> 23 (03), 230-234	UGC Care Listed	

14.	G Kumar, P Bharti, SK Yadav, Surendra Kumar (2019) . Improvement for estimating population mean in simple random sampling scheme, <i>Journal of Reliability and Statistical Studies</i> , 12 (1), 41-19. ISSN-2229-5666	SCOPUS ESCI	1.018
15.	Subhash Kumar Yadav, S.S. Mishra, Surendra Kumar, R. Kumar (2018) . New efficient predictive estimator of population mean using median of study variable, <i>Jnanabha</i> , 48(1), 17-25 ISSN- 0304-9892	UGC Care Listed	
16.	G Kumar, P Bharti, Surendra Kumar, SK Yadav (2018) , General exponential ratio type estimator of population mean under simple random sampling scheme, <i>International Journal of Creative Research Thoughts</i> , 6 (1), 450-455 ISSN: 2320-2882	UGC Care Listed	
17.	Surendra Kumar, SK Yadav (2018) , Population Estimation Utilizing Known Median of the Study Variable <i>International Journal of Creative Research Thoughts</i> 6 (1), 1-8, ISSN: 2320-2882	UGC Care Listed	
18.	Surendra Kumar, SK Yadav (2017) , New Class of Estimators of Population Mean Using Known Median of the Study Variable, <i>Elixir Statistics</i> 109 (C), 47882-47888 ISSN: 2229-712X .	UGC Care Listed	
19.	Surendra Kumar, SK Yadav (2017) , New estimation strategy of population mean using known median of the study variable, <i>International Journal of Mathematical Archive</i> 8 (6), 181-188 ISSN 2229-5046	UGC Care Listed	
20.	Yadav, S.K., Singh, L., Mishra, S.S., Mishra, P.P. and Surendra Kumar (2017) . A median based regression type estimator of the finite population mean, <i>International journal of Agricultural and Statistical Sciences</i> , 13, 1, 265-271. ISSN-0976-3392	SCOPUS ESCI	0.156
21.	U.S. Rajput and Surendra Kumar (2016) . Unsteady natural convection MHD flow through porous media past an accelerated vertical plate in a thermally stratified fluid, <i>International Journal of Mathematical Archive</i> 7 (5), 100-106 ISSN 2229-5046	UGC Care Listed	
22.	U.S. Rajput and Surendra Kumar (2015) . Radiation and chemical effects on MHD flow through porous media past an impulsively started exponentially accelerated vertical plate with variable temperature in the presence, <i>Elixir Appl. Math</i> 85, 34386-34396 ISSN: 2229-712X .	UGC Care Listed	
23.	SK Yadav, S Misra, Surendra Kumar, AK Shukla, V Tiwari, (2014) , Improved ratio type Estimator of population mean under two phase sampling, <i>Bulletin of Mathematics and Statistics Research</i> 2 (4), 401-406 ISSN: 2348-0580	UGC Care Listed	
24.	Subhash Kumar Yadav, S.S. Mishra and Surendra Kumar (2014) , Optimal Search for Efficient Estimator of Finite Population Mean Using Auxiliary Information, <i>American Journal of Operations Research</i> , 4(2) 28-34, USA. ISSN: 2160-8830	UGC Care Listed	

25.	US Rajput and Surendra Kumar (2013) , Radiation Effect on MHD Flow Through Porous Media Past An Impulsively Started Vertical Plate With Variable Heat and Mass Transfer, International Journal of Mathematical Archive, 4(10), 106-114, ISSN 2229-5046	UGC Care Listed	
26.	U.S. Rajput and Surendra Kumar (2012) , <i>Rotation effect on MHD flow past an impulsively started vertical plate with variable mass diffusion</i> . General Mathematics Notes, Irbid, Jordan. Vol. 8, No. 1, January 2012, 6-14, ISSN: 2219-7184 .	UGC Care Listed	
27.	U.S. Rajput and Surendra Kumar (2012) , <i>Unsteady natural convection MHD flow past an accelerated vertical plate in a thermally stratified fluid</i> . Missouri Journal of Mathematical Sciences, USA, 24(1) 88-90, ISSN: 0899-6180 .	SCOPUS	0.447
28.	U.S. Rajput and Surendra Kumar (2012) , <i>Radiation effect on MHD flow past an impulsively started vertical plate with variable heat and mass transfer</i> , International Journal of Applied Mathematics and Mechanics, Hong Kong, China, Vol-8 (1), 66 – 85, ISSN: 0973-0184	UGC Care Listed	
29.	US Rajput and Surendra Kumar (2012) , Radiation effects on MHD flow through porous media past an impulsively started vertical oscillating plate with variable mass diffusion, ARPN Journal of Engineering and Applied Sciences, 7 (1), 108-113, ISSN: 18196608	SCOPUS	0.267
30.	US Rajput and Surendra Kumar (2012) , Rotation and radiation effects on MHD flow through porous media past an impulsively started vertical plate with variable temperature, Elixir Appl. Math 50, 10440-10443, ISSN: 2229-712X	UGC Care Listed	
31.	U.S. Rajput and Surendra Kumar (2011) , Effect of chemical reaction on free convection MHD flow through a porous medium bounded by vertical surface, Elixir Appl. Math 41, 5957-5962, USA, ISSN: 2229-712X	UGC Care Listed	
32.	U.S. Rajput and Surendra Kumar (2011) , <i>Rotation and radiation effects on MHD flow past an impulsively started vertical plate with variable temperature</i> . Int. Journal of Math. Analysis. Ruse, Vol. 5, no. 24, 1155 – 1163, ISSN 1312-	SCOPUS	0.265
33.	U.S. Rajput and Surendra Kumar (2011) , <i>MHD flow past an impulsively started vertical plate with variable temperature and mass diffusion</i> , Applied Mathematical Sciences, Ruse, Vol. 5, no. 3, 149 -157 ISSN: 1312-885X	SCOPUS	0.465
34.	U.S. Rajput and Surendra Kumar (2011) , <i>Radiation and chemical reaction effect on free convection MHD flow through a porous medium bounded by vertical surface</i> , International Journal of Mathematical Archive 2(12), 2660-2669, ISSN: 2229-5046	UGC Care Listed	
35.	U.S. Rajput and Surendra Kumar (2011) , <i>Radiation effects on MHD flow through porous media past an exponentially accelerated vertical plate with variable temperature</i> , ISST Journal of Mathematics & Computing System Vol. 1, No. 2, 1-7, ISSN: 0976-9098 .	UGC Care Listed	

36.	U.S. Rajput and Surendra Kumar (2010) , <i>MHD flow past an impulsively started infinite vertical porous plate with heat transfer</i> , Journal of Ultra Scientist of Physical Sciences, Vol. 22(1), 85-90 (2009). ISSN: 0970- 9150.	UGC Care Listed	
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Ongoing Research Project Details:

शोध परियोजना का शीर्षक	निधि प्रदान करने वाले अभिकरण/एजेन्सी का नाम	शोध की अवधि एवं वर्तमान स्थिति
Efficient Estimation of Average Production of Sugarcane Crop at Pihani Block of Hardoi District	उत्तर प्रदेश शासन, उच्च शिक्षा अनुभाग-4 के पत्रांक संख्या- 46 / 2021 / 603 /सत्तर-4-2021-4(56)/ 2020 दिनांक 30-03-2021 के द्वारा रिसर्च एण्ड डेवलपमेण्ट योजना के अन्तर्गत	तीन वर्ष,

Other Academic and Administrative Assignments:

S. No.	Administrative Position
1.	PM USHA Coordinator
2.	Rovers In-charge
3.	Editor- College Magazine
4.	Coordinator Cultural Programme
5.	Coordinator of Admission
6.	Member of College Proctorial Board
7.	Member of NAAC Evaluation Committee
8.	Member of Internal Quality Assurance Cell (IQAC)
9.	Ex-Programme Officer, National Service Scheme
10.	Web Administrator, GDC Pihani/MGDC Mahona
11.	Ex-Coordinator UGC Remedial Coaching
12.	Member of College Research Committee
13.	GeM Portal HOD
14.	e-tender In-charge
15.	Member of Planning Committee of College
16.	NIRF Coordinator
17.	AISHE Coordinator
18.	Examination In-charge session 2021-22
19.	Seminar organising secretary/ Convenor

(Surendra Kumar)