



Faculty Details Proforma For College Web-site



Title	Dr	First Name	Umesh	Last Name	Kumari	Photograph
Designation	Assistant Professor					
Address	Department of Mathematics Daulat Ram College University of Delhi					
Phone No. Office						
Residence	Gurugram					
Mobile No.	Confidential					
Email - ID	umesh@dr.du.ac.in					
Web Page						
Educational Qualification						
Degree	Institution				Year	
B.Sc.	MDU Rohtak				2011	
M.Sc.	Banasthali University, Rajasthan				2013	
M.Phil.	MDU, Rohtak				2017	
PhD	Central University of Rajasthan, Ajmer				2022	
CSIR JRF	CSIR, Delhi				2017	
Career Profile						
I have started my career as Assistant Professor in Daulat Ram College since 2022						
Administrative Assignments						
1. Co-Convener of B.A Programme 2024-25 2. Admission Committee member of B.A Programme 2024-25 3. Member of Student Advisory Board 2024-25 4. Member of National Service Scheme, 2024-25 5. Member of Prize Committee 2024-25 6. Admission Grievance committee member of B. Sc.(H) for the academic year 2023-24 7. Member of Prize Committee for the academic year 2022-23						
Areas of Interest / Specialization						
Graph Theory, Fuzzy Graph Theory, Queueing Theory						

Subjects Taught

Group Theory, Linear Algebra, Riemann Integration and Series of Functions, Vedic Mathematics, Probability and Statistics, Algebra, Complex Analysis, Calculus.

Research Guidance**Publications Profile**

1. Optimal parameter selection for a machine repair system with servers' vacation and controlling f-policy in Jordan Journal of Mathematics and Statistics (JJMS) (2020) (JJMS) 12(4), 2020, pp 625 – 642(Scopus)
2. Cost Analysis and Optimization of Machine Repair Model with Working Vacation, and feedback policy in International Journal of Applied and Computational Mathematics 7, Article number: 250 (2021). (Scopus)
3. Performance Analysis of a Machine Repair Problem with Warm Standbys, Servers Vacation and Controlling F in Mathematics in Engineering, Science and Aerospace Vol. 12, No. 2, pp. 1-21, 2021(Scopus)
4. Transient Analysis of an unreliable system with working vacation and threshold recovery in Mathematics in Engineering, Science and Aerospace (MESA), Vol (14)(3), 761-772 (Scopus)
5. Fuzzy Analysis of a retrial Machine repair Problem using gaussian fuzzy number in Palestine Journal of Mathematics, Vol 13(3) (2024), 722–737 (Scopus)
6. Analysis of N-Policy machine Repair model with reboot and recovery action (Accepted in Journal of Mathematical Analysis) 2024

Conference Organization / Presentation (in the last three years)

1. International Conference on Applied Nonlinear Analysis and Soft Computing Organized by Department of Mathematics, Gauhati University, Gauhati781014, India, 22-23 December 2020.
 2. Online International Conference on History and Development of Mathematics (ICHDM 2020) organized by Department of Mathematics, Mdu Rohtak, Haryana, India, December 2020.
 3. 1st International Conference on Indian Science Congress Association (ICSTRD2020) –Rohtak chapter on Science and Technology: Rural Development organized by Department of Chemistry, Mdu Rohtak, Haryana, India March 4-5, 2020.
 4. International Webinar on Modern nature inspired optimization Techniques (MNIOT) Organized by Department of Mathematics Indira Gandhi Tribal University (IGNTU), Amarkantak, M.P India January 24- 25, 2021.
 5. International Webinar Series on “Application of Stochastic Models and Queueing Theory” Organized by Department of Mathematics, Central University of Rajasthan, October 11- Nov 11, 2021.
6. 27th International Conference of International Academy of Physical Sciences (CONIAPS XXVII) On Recent Advances in Solid Mechanics and Seismology Organized by Department of Mathematics, Kurukshetra University, Kurukshetra, Haryana, India October 28, 2021.
 7. Advanced Training in Mathematics Annual Foundation School (AFS-II) Central University of Rajasthan December 03-29,2018.
 8. International Conference on "Recent trends in Applied and Physical Sciences using Machine Learning" ICRT-2023.
 9. Completed Two-week Faculty Development Program organised by organized by Mahatma Gandhi Vidyamandir’s Loknete Vyankatrao Hiray Arts, Science and Commerce College, Nashik and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi, from 16th to 28th January 2023.
 10. Completed a 4-Week Faculty Induction/Orientation Programme organised by Teaching Learning Centre Ramanujan College, University of Delhi, under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 20th February to 21st March.
 11. Completed One Week (Online) Faculty Development Programme on “Significance of Vedic Mathematics in Modern Era” (5th December– 10th December, 2022) organised by Aryabhata College, University of Delhi in collaboration with Shiksha Sanskriti Utthan Nyas & Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi
 12. Resource Person in the two-day In-House Skill Development Program on “Enhancing Learning through ICT Tools”, Organised by the Department of Mathematics, Daulat Ram College, University of Delhi from 26-27November,2022.
 13. Resource Person in the five-day Workshop on “Vedic Mathematics”, Organised by the Department of Mathematics, under the ages of IQAC, Daulat Ram College, University of Delhi from 11-18 October, 2023.
 14. 1st International Conference on Emerging Trends in STEM & Health Agri Sciences for Sustainable

Development, MIET Kumaon, Lamachaur, Haldwani, Uttarakhand, India, 11-12 march, 2024

15. Resource Person in the two-day In-House Skill Development Program on “Enhancing Learning through ICT Tools”, Organised by the Department of Mathematics, Daulat Ram College, University of Delhi from 13-14 September,2024.
16. Co-Coordinator in the two-day In-House Skill Development Program on “Enhancing Learning through ICT Tools”, Organised by the Department of B.A Programme, Daulat Ram College, University of Delhi from 13-14 September,2024.

Research Projects (Major Grants/Research Collaboration)
Awards and Distinctions
Association with Professional Bodies
Other Activities
Member of Value Addition Course (Vedic Mathematics -3) Committee at University of Delhi

