




DEPARTMENT OF _____
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL



Title	Ms.	First Name	Monika	Last Name	Choudhary	Photograph
Designation	Assistant Professor					
Address	Dyal Singh College Lodhi Road, New Delhi					
Phone No Office						
Residence						
Mobile						
Email	monikachoudhary.maths@dsc.du.ac.in					
Web-Page	http://dsc.du.ac.in/faculty/					
Educational Qualifications						
Degree	Institution				Year	
PhD (Mathematics)	Delhi Technological University, Delhi				Pursuing	
M.Sc. Mathematics	J.N.V.U Jodhpur				2015	
B.Sc.	J.N.V.U Jodhpur				2013	
Career Profile						
Administrative Assignments (From 1 st July 2017 onwards)						
Areas of Interest / Specialization						
<ul style="list-style-type: none">• Differential Equations• Numerical Analysis						
Subjects Taught						
<ul style="list-style-type: none">• Ordinary Differential Equations• Partial Differential Equations• Numerical Methods• Calculus• Probability and Statistics						
Research Guidance						
NA						

Publications Profile (From 1st July 2017 onwards)

- Aditya Kaushik, Manju Sharma, Aastha Gupta and Monika Choudhary, Iterative analytic approximation to one-dimensional nonlinear reaction–diffusion equations, *Mathematical Methods in the Applied Sciences* (SCIE), IF-3.007(2020).
- Aditya Kaushik and Monika Choudhary, A higher-order uniformly convergent defect correction method for singularly perturbed convection-diffusion problems on an adaptive mesh, *Alexandria Engineering Journal* (SCIE), IF-6.626 (2022).
- Monika Choudhary and Aditya Kaushik, A uniformly convergent defect correction method for parabolic singular perturbation problems with a large delay, *Journal of Applied Mathematics and Computing* (SCIE), IF-2.196 (2022).

Conference Organization/ Presentations (From 1st July 2017 onwards)

- Attended “International Conference on Recent Advances in Pure and Applied Mathematics” held at Delhi Technological University, Delhi during 23-25 October 2018.
- Attended “4th International Conference on Recent Developments in Theory, Computation & Application of Differential Equation to Celebrate the 70th Birthday of Prof MK Kadalbajoo” held at South Asian University, New Delhi during 21-23 January 2019.
- Presented a research article entitled “A defect correction method for singularly perturbed convection diffusion problem on Shishkin mesh” in 24th International Conference of International Academy of Physical Sciences (CONIAPS-XXIV) on “Innovations in Physical Sciences” held at CCS University Meerut during 09-11 August 2019.
- Participated as Technical Assistant in “One-day M.Sc. curriculum Workshop-2019” held at Department of Applied Mathematics, DTU, Delhi on 14 November 2019.
- Attended TEQIP III sponsored one week short term training program on “Recent Trends in Security and Cryptography” organized by Department of Applied Mathematics, DTU, Delhi during 18-22 November 2019.
- Attended TEQIP III sponsored one week short term training program on “Graph Theory and Its Applications” organized by Department of Applied Mathematics, DTU, Delhi during 25-29 November 2019.
- Presented a research article entitled “The Parameter Uniform Defect Correction Method on a novel Shishkin-type mesh for linear singularly perturbed convection-diffusion problem” in “International Conference on Integrated Interdisciplinary Innovations in Engineering (ICIIE-2020)” held at Panjab University, Chandigarh during 28-30 August 2020.
- Participated in one day National Seminar on Emerging trends in Applied Mathematics held on February 27, 2021 at Panjab University, Chandigarh.
- Participated in 27th International Conference of International Academy of Physical Sciences (CONIAPS XXVII) on “Recent Advances In Solid Mechanics and Seismology” held at Kurukshetra university, Kurukshetra during 26-28 October 2021.
- Participated 2-Days workshop on “Maple 2022 & its Applications” organized by Binary Semantics Ltd at Department of Applied Mathematics, DTU, Delhi during 26-27 May 2022.

Research Projects (Major Grants/Research Collaboration) (From 1 st July 2017 onwards)
NA
Awards and Distinctions (From 1 st July 2017 onwards)
<ul style="list-style-type: none"> • Recipient of Junior Research Fellowship of CSIR during Ph.D. • Recipient of Research Award in 5th Research Excellence Award ceremony at Delhi Technological University in 2021.
Association With Professional Bodies
NA
Other Activities like MOOCs/ Patents etc. (From 1 st July 2017 onwards)
NA



Signature of Faculty Member