

DESHBANDHU COLLEGE (UNIVERSITY OF DELHI) KALKAJI, NEW DELHI - 110019 Faculty Details Proforma for College Website

Title Dr .	First Name	Palkal	Last Name	Mishra	Photograph
Designation	Assistant Professor				
Address	Sarita Viha	Sarita Vihar, New Delhi			Reel
Phone No. Office	(+91) 9473	(+91) 9473937649			
Residence					
Mobile	(+91) 7007	(+91) 7007890548			
Email	pmishra@d	pmishra@db.ac.in			
Web-Page				Carl 1	
Educational Qua	ifications				
Degree	Institution	Institution			Year
Ph.D.	South Asia	South Asian University, New Delhi		elhi	2013-2019
M.Phil.					
PG	Indian Inst	Indian Institute of Technology, Kanpur			2001
UG	Purvancha	Purvanchal University, Jaunpur, U.P.			1999
Any other qualification	on CSIR-N	CSIR-NET(JRF)			2001
GATE-2001 Administrative As Member, Pro	ssignments ctorial Committe	ee			
Areas of Interest	Specialization				
Numerical An	alysis, Differenti	al Equation			
Subjects Taught					
Numerical An Calculus.	alysis, Partial D	ifferential I	Equation	s, Probabili	ty & Statistics,
Research Guidan	ce				
List against each h		Thesis			
•	n of Doctoral Thesis, u				
	n of owordod M Dhil d				

- 3. Supervision of awarded M.Phil. dissertations
- 4. Supervision of M.Phil. dissertations, under progress

Publications Profile

b) Research papers published in R	d) - NA attached CV.
	ok reviews,Festschrift volumes, etc.):NA
Conference Organization/ Presentations	
List against each head(If applicable) 1. Organization of a Conference: None 2. Participation as Paper/Poster Prese	Note: See the Details in attached CV.
Research Projects (Major Grants/Research	h Collaboration)
NA Awards and Distinctions NA	
Association With Professional Bodies	
NA	
Other Activities	
Note: See the Details in attached	
	and Dr. Pankaj Mishr

Signature of Faculty Member

• You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.

Curriculum Vitae

Dr. Pankaj Mishra

Ph.D. (South Asian University, New Delhi)Assistant ProfessorDepartment of Mathematics, Deshbandhu College, University of DelhiCell: 9473937649

E-Mail: pmparasar@gmail.com



1 Education

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1.1 Doctor of Philosophy (Ph.D.)

- i. Thesis Title: Orthogonal Spline Collocation Methods for Singularly Perturbed Reaction-Diffusion Problems
- **ii.** University: South Asian University, New Delhi.
- iii. Duration: 2013–2019.
- iv. Registration No: SAU/AM(P)/2013/002.
- v. Supervisor: Prof. Kapil K. Sharma, Professor, Department of Mathematics.

1.2 Academic Details

- i. Pre-Ph.D, South Asian University, New Delhi, 2013-2014, Mathematics, CPI 9.0
- ii. Master in Science, Indian Institute of Technology, Kanpur, 1999-2001, Mathematics, CPI 7.2
- iii. Bachelor in Science, Purvanchal University, Jaunpur, 1996-1999, Mathematics, Physics, 78.4 %
- iv. Intermediate, U.P. Board, Allahabad, 1995-1996, Maths Group, 75.4 %
- v. High School, U.P. Board, Allahabad, 1993-1994, Science Group, 78%

1.3 Other Exams

- i. CSIR-NET, 2001, Mathematics, Roll No.: 400233, JRF
- ii. GATE, 2001, Mathematics, Roll No.: MA 460118, Percentile : 88.25

1.4 Programming Skills

MATLAB, MATHEMATICA, SCILAB, LATEX, Software R, MAXIMA, OCTAVE.

1.5 Area of Research

Singularly Perturbed Differential Equations, Orthogonal Spline Collocation Methods.

1.6 Courses Taught

Numerical Analysis & its Applications, Ordinary and Partial Differential Equations, Probability & Statistics.

1.7 Teaching Experience

- i. Deshbandh College, University of Delhi, August 28, 2019–Till date, Assistant Professor(Adhoc)
- ii. Hindustan College of Science & Technology, Mathura, Sep 02, 2009–July 30, 2013, Assistant Professor
- iii. Institute of Engineering, Jiwaji University, Gwalior, May, 2005-May, 2006, Lecturer

1.8 Research Publications

i. Pankaj Mishra, Kapil K. Sharma, Amiya K. Pani and Graeme Fairweather. Orthogonal spline collocation for a class of singularly perturbed reaction diffusion problems in one dimension: A Computational Study,

Technical Report, November (2016), DOI: 10.13140/RG.2.2.15552.94726.

- Pankaj Mishra, Kapil K. Sharma, Amiya K. Pani and Graeme Fairweather. Orthogonal spline collocation for singularly perturbed reaction diffusion problems in one dimension, Int. J. Numer. Anal. Model., 16(4), pp. 647-667, 2019.
- iii. Pankaj Mishra, Kapil K. Sharma and Graeme Fairweather. Orthogonal spline collocation for singularly perturbed semilinear reaction diffusion problems in one dimension, International Journal for Computational Methods in Engineering Science & Mechanics, 20(5), pp. 336–346, 2019, Print ISSN: 1550-2287, Online ISSN: 1550-2295.
- iv. Pankaj Mishra, Kapil K. Sharma, Amiya K. Pani and Graeme Fairweather. *High order discrete-time orthog-onal spline collocation methods for singularly perturbed 1D parabolic reaction-diffusion problems*. Numeri-cal Methods for Partial Differential Equations, 2019, DOI: 10.1002/num.22438, Online ISSN:1098-2426.
- v. Kapil K. Sharma, Pratima Ray, Pankaj Mishra. A robust numerical scheme for singularly perturbed delay differential equations with turning point. International Journal for Computational Methods in Engineer-ing Science & Mechanics, 20(5), pp. 423–433, 2019, Print ISSN: 1550-2287, Online ISSN: 1550-2295.

1.9 Paper presentation in Conferences

- Error estimate in the balanced norm of the orthogonal spline collocation methods for singularly perturbed reaction-diffusion problems in one dimension, International Conference on Mathematical Analysis and Its Applications, Dec 14– 16, 2019, South Asian University, New Delhi
- ii. A BDF2 orthogonal spline collocation methods for singularly perturbed reaction diffusion parabolic problems in one space dimension, International Conference on Recent Developments in Theory, Computation & Application of Differential Equations, January 21–23, 2019, South Asian University, New Delhi
- iii. A Robust numerical method for singularly perturbed semilinear boundary value problems in one dimension, International Conference on Current Trends in Theoretical & Computational Differential Equations with Applications, Dec 01– 05, 2017, South Asian University, New Delhi
- iv. A parameter uniform method for singularly perturbed reaction diffusion problem in 1D using C^1 spline, International Conferences on Recent Advances in Theoretical & Computational Partial Differential Equations with Applications, Dec 01–05, 2016, UIET, Panjab University, Chandigarh.
- v. Orthogonal spline collocation method for a class of singularly perturbed reaction diffusion problems in one dimension, International Conferences on Current trends in PDEs: Theory & Computations Dec 28–30, 2015, South Asian University, New Delhi.

1.10 Workshops/Schools/Internship

- International Workshop on Numerical methods in Scientific Computing, Feb 21–22, 2020, South Asian University, New Delhi
- ii. Teacher's Enrichment Workshop on Differential Equations, Mathematical Modelling & Analysis, July 24–
 29, 2018, Deshbandhu College, New Delhi
- iii. Advanced Level Workshop on Diffusion and Sub-Diffusion Problems: Theory Numerics & Applications,Jan 31– Feb 05, 2017, The LNM Institute of Information Technology (LNMIIT), Jaipur
- iv. Singularly Perturbed Partial Differential Equations(SPPDEs) Theory, Computation and Application, March 24–28, 2016, Indian Institute of Technology, Kanpur.
- v. Summer Internship under Prof Amiya K. Pani, June 14–July 11, 2016, Indian Institute of Technology, Bombay.
- vi. CIMPA- Research School July 6–17, 2015, Indian Institute of Technology, Bomaby
- vii. Pre Research School for CIMPA, June 24–July 4, 2015, Indian Institute of Technology, Bomaby.
- viii. Advanced Workshop on Finite Difference Methods for Differential Equations, March 13–17, 2015, South Asian University, New Delhi

- ix. Advanced Level Training Programme on Differential Equations May 26–June 13, 2014, Indian Institute of Science Education Research, Trivendram.
- x. Orthogonal Spline Collocation Methods for PDEs, March 21–24, 2014, South Asian University, New Delhi.
- xi. Elliptic Equations: Variational Formulation & Numerics (EEVFN-2013), Dec 09-20, 2013, The LNM Institute of Information Technology (LNMIIT), Jaipur.
- xii. Discrete Mathematics & Discretization Process, Oct 25–26, 2013, South Asian University, New Delhi.
- xiii. Advanced Instructional School in Numerical Analysis, June 18–July 7, 2012, Panjab University, Chandigarh.
- xiv. Ramanujan's Mathematics, Dec 22–24, 2010, National Academy of Sciences, Allahabad, India (NASI).
- xv. LaTeX:The Language of Scientific Writing (LaTeX-2012), March 17–18, 2010, Hindustan Institute of Technology & Management (HITM), Agra.

1.11 Delivered Talk/Lecture

- Orthogonal Spline collocation methods for singularly perturbed parabolic problems, International Conference on Recent Advances in PDE: Theory, Computations and Applications, June 08– 10, 2017, Indian Institute of Technology, Bombay (IITB)
- ii. A collocation approach for numerical solution of differential equations, Research Scholar Meet, May 8–9,
 2015, South Asian University, New Delhi.

1.12 Conference Attended

International Conferences on Function Spaces and Inequalities, Dec 8–12, 2015, South Asian University, New Delhi.

1.13 Session Chaired in Conferences

 International Conference on Mathematical Analysis and Its Applications, Dec 14– 16, 2019, South Asian University, New Delhi

1.14 Reviewers

2 Personal Details

- i. Name: Pankaj Mishra
- ii. Father's Name: Shri Radhey Shyam Mishra

- iii. Permanent Residence Address: Village: Shripatti, Post: Mawaiya, Thana: Chilh, District: Mirzapur, Uttar Pradesh-231312.
- iv. Local Residence Address: Sarita Vihar, New Delhi-110076
- v. Date of Birth: October 20, 1979
- vi. Marital Status: Married.
- vii. Cell No: 7007890548, 09473937649
- viii. E-Mail: pmparasar@gmail.com, pankajm@iitkalumni.org
- ix. Gender: Male
- x. Nationality: Indian
- xi. Language Known: Hindi, English

3 Declaration

I, hereby, declare that the particulars furnished by me in this resume are true to the best of my knowledge and based on records.

Your sincerely

Langarasar

(Dr. Pankaj Mishra) May 7, 2020, New Delhi