




Shivaji College Faculty Details Proforma

Title	Dr (Lt)	First Name	Deepti	Last Name		Photograph
Designation	Associate Professor					
Address	Tilak Nagar, West delhi-110018					
Office Phone No.						
Residence						
Mobile	8377969483					
Email	deepti@shivaji.du.ac.in					
Web-Page						
Educational Qualifications	Ph.D					
Degree	University/Institute			Year		
Ph.D.	IKG Punjab Technical University, Jalandhar			2022		
M.Phil./M.Tech.						
PG	Punjab University, Chandigarh			2007		
UG	D.A.V College, PU			2005		
Any Other Qualification						
Career Profile						
<p>Currently working as an Associate Professor at Department of Mathematics, Shivaji College, University of Delhi, New Delhi and holds an experience of 15 years in teaching. She has obtained her PhD from Department of Mathematics, IKG Punjab Technical University, Jalandhar in the field of Fluid Dynamics. During PhD, she has worked on some steady and unsteady flow problems of fluid mechanics. Also she has published several research papers in international and national journals of repute. Moreover, delivered several invited lectures and attended more than 30 workshops and advanced training programs. Qualified CSIR NET/JRF exam in June 2009 with All India Ranking 114 and GATE exam in 2009.</p>						
Administrative Assignments						

1. Worked as Discipline Committee Convenor (2020-21 & 2021-22)
2. Worked as Centre Supdt University Examination(2020-21 & 2021-22)
3. Associate NCC Officer, Girls Wing
4. Assistant Coordinator- SOL since 2022
5. Teacher in Charge - (2022-23)
6. Liaison Officer (OBC)

Areas of Interest/Specialisation

1. Fluid Dynamics
2. Probability and Statistics
3. Differential Equations

Subjects Taught

Number Theory, Probability and Statistics, Real Analysis, Calculus, Differential Equations

Innovation Project/Research Projects (Major Grants/Research Collaboration)

Publications Profile (Research Papers/Books)

Research Papers

1. Garg, B.P., and Deepti (2018), Effect of an exponentially accelerated ramped vertical plate on an unsteady MHD free convection flow in the presence of magnetic field, International Journal of Advance Research in Science and Technology, 7(6), pp 137- 149.
2. Garg, B.P., and Deepti (2018), Analysis of radiative free convective flow past a flat plate in the presence of transverse magnetic field with ramped wall temperature, international journal of Statistics and Applied Mathematics, 3(4), pp. 130-139.
3. Garg, B.P., and Deepti (2019), Slip effects on chemically reacting MHD free convective flow past an inclined porous plate with radiation absorption effects and variable suction, Review of Research, 8(6), pp. 1-16.
4. Garg, B.P., and Deepti (2019), Analysis of viscoelastic hydromagnetic oscillatory flow under radiation and slip flow effects with concentration, International Journal of Applied Engineering Research, 14(8), pp. 1805-1817.

5. Garg, B.P., and Deepti (2019), Chemical reaction effects on radiative MHD mixed convection flow from a vertical flat plate with ohmic heating and viscous dissipation effects in slip flow regime, Journal of Rajasthan Academy of Physical Sciences, 18(1- 2), pp. 65-82.
6. Garg, B.P., and Deepti (2019), Ramped temperature effects on unsteady MHD free convective flow past an exponentially accelerated vertical plate with radiation absorption and chemical reaction, i-Manager's Journal on Future Engineering and Technology, 15(1), pp. 30-53.
7. Deepti and Garg, B.P. (2019). Combined effects of periodic suction and permeability on MHD oscillatory flow of Rivlin Ericksen fluid past a moving semi-infinite porous plate in the presence of thermal radiation, SAMRIDDHI-A Journal of Physical Sciences, Engineering and Technology, 11(2) pp. 93-107.
8. Deepti (2022). Slip effects on unsteady MHD Free convective flow of Rivlin- Ericksen Fluid in the presence of Heat Source/Sink in ECS Transactions, 107 (1) 12965-12975 (2022).

Book Published

Authored a book "Probability and Statistics" for B.Sc. (Prog.) Physical and Applied Physical Sciences, K.K Publications, New Delhi

Conference/Seminar/Faculty Development Programme/Workshop

1. Participated - 3rd Chandigarh Science Congress, Punjab University, Chandigarh, February 26-28, 2009.
2. Participated - Two days UGC Sponsored National Workshop on Development of Competence in Teaching Learning Mathematics through 'Origami' and 'Animation', Sohan Lal DAV College of Education, March 6-7, 2009
3. Participated-4th Chandigarh Science Congress, Punjab University, Chandigarh, s19-20 March, 2010
4. Participated - Ten Days Workshop on Theatre of Relevance: "Discovering Self", Guru Nanak College for Girls, Muktsar, September 20-30, 2010.
5. Paper Presented - 'Practical Statistics for Medical Research' in National Seminar on Role of Statistics in Physiotherapy, Lyallpur Khalsa College, Jalandhar, November 25- 27, 2010
6. Participated-Instructional School for Lecturers in Geometric Complex Analysis, Department of Mathematics, University of Delhi, March 21, 2011 to April 2, 2011.
7. Paper Presented - 'Gender Inequality' in National Seminar on Law, Justice, Social Change for Women, Gopichand Arya Mahila College, Abohar on September 20, 2011
8. Participated-Instructional School for Lecturers in Real Analysis, Department of Mathematics, University of Delhi, March 26, 2012 to April 7, 2012.
9. Participated - Orientation Programme conducted by Academic Staff College, Punjabi University Patiala from May 3-30, 2012 with 'A ' Grade
10. Participated - Four Day Workshop organized by RGNIYD on 'Training in Life Skills and Personality Development', OTA, Gwalior, September 26-29, 2012
11. Participated- International conference ' The Legacy of Srinivasa Ramanujan' organized by University of Delhi, December 17-22, 2012
12. Participated-Instructional School for Lecturers in Group Theory, Department of Mathematics, University of Delhi, June 3-15, 2013
13. Participated - Refresher Course conducted by Academic Staff College, HP University, Shimla from 24th June-13th July, 2012 with 'A ' Grade
14. Participated- Science Academies' Lecture Workshop organized by department of Mathematics, Shivaji College, University of Delhi, October 16-17, 2014
15. Participated - Refresher Course conducted by CPDHE, University of Delhi from 26th November -16th December, 2015 with 'A ' Grade
16. Participated - International Conference on 'Recent Advances in Optimization Theory and Applications', Department of Operational Research and Department of Mathematics, University of Delhi, Delhi, January 30-31, 2016.
17. Participated - One Day Workshop on Computational Optimization, Department of Mathematics, Sri Venkateswara College, University of Delhi held on Feb. 05, 2016.
18. Participated- Conference on 'Analysis and its Applications', Department of Mathematics, Dyal Singh College, University of Delhi, Delhi on December 9-11, 2017

19. Participated - Faculty Development Programme on 'Research Methodology', Bhaskaracharya College of Applied Sciences, Delhi, December 16-22, 2017.
20. Participated - Faculty Development Programme on 'Emerging trends in Mathematics', Atma Ram Sanatan Dharma College, University of Delhi, New Delhi, February 1, 2018.
21. Paper Presented - 'Effect of an exponentially accelerated ramped vertical plate on an unsteady MHD free convection flow in the presence of magnetic field in International Conference on 'Recent Trends and Innovation in Engineering, Sciences and Management' Adesh Institute of Engineering & Technology, Faridkot, April 14- 15, 2018.
22. Participated - One-week Teacher Enrichment Workshop on Differential Equations, Mathematical Modelling and Analysis held at Deshbandhu College, University of Delhi, July 24-29, 2018.
23. Participated -One-week FDP on "Understanding the connection of Mathematics with the world around us: An Application Based Learning" at Mahatma Hansraj College University of Delhi, June 20-26, 2019.
24. Participated -One-week FDP on 'Biomathematics' at Shivaji college, University of Delhi, August 1-7, 2019.
25. Paper Presented - 'MHD free convective flow past a flat plate in the presence of transverse magnetic field and thermal radiation with ramped wall temperature' in National seminar on 'Advances in Mathematical Sciences" held at D.A.V College Abohar, Punjab, Nov. 15, 2019
26. Paper Presented- Combined effects of periodic suction and permeability on MHD oscillatory flow of Rivlin Ericksen fluid past a moving semi-infinite porous plate in the presence of thermal radiation" presented in 85th Annual Conference of Indian Mathematical Society - An International Meet held at IIT Kharagpur, Nov 22-25, 2019.
27. Paper Presented - Radiation absorption effects on chemically reacting MHD natural convection flow from a vertical plate with ramped variations in wall temperature in the presence of heat source/sink" presented in National Conference ETMSIE held at Shaheed Bhagat Singh College, University of Delhi, January 27- 29, 2020.
28. Paper Presented -Heat Source/ Sink Effects on Unsteady MHD Free Convective flow of Rivlin- Ericksen fluid with Slip Conditions" presented in International Conference on Advances in Physical, Chemical and Mathematical Sciences held at RTM Nagpur University, Nagpur, February 13-16, 2020.
29. Participated- One Week Faculty Development Program on GeoGebra organized by Department of Mathematics, R. K. College Bihar in association with Spoken Tutorial Software Training Project developed by Indian Institute of Technology - Bombay, an initiative of National Mission on Education Through ICT, MHRD, Govt. of India, May 6-12, 2020.
30. Participated - National Webinar on Cyber Security organised by Department of Mathematics, Shaheed Bhagat Singh College, University of Delhi on 26th June, 2020.
31. Participated - National Virtual Seminar On "MATHEMATICAL THINKING" organized by Department of Mathematics, S.D. COLLEGE, BARNALA on July 06, 2020.
32. Participated - National Webinar "Impact Centric Research: Funding Opportunities and Challenges in Framing Successful Research Proposal" organized by Shivaji College, University of Delhi on July 11, 2020.
33. Participated- International Webinar Series on "Compact Radiation Sources and Applications in Sciences" organized by Raj Kumar Goel Institute of Technology, Ghaziabad on September 14-16, 2020.
34. Participated- Webinar On "The contribution of DRDO in prevention and management of COVID-19 Pandemic" organized by Shivaji College, University of Delhi on September 26, 2020.
35. Participated - National Webinar "Career Prospects" jointly organised by Dr. Ambedkar College, Nagpur and Seth Kesarimal Porwal College of Arts, Science and Commerce, Kamptee on August 21, 2020
36. Participated - One Week National Faculty Development Program and Online Training on "R Programming" hosted by Prakasam Engineering College, Kandukur In association with Spoken Tutorial Project, IIT-Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India, May 22-28, 2020

37. Participated- Online Invited Talk on Professional Ethics for Teachers: Duties & Responsibilities, organized by the Department of Mathematics, R. K. College Bihar on 24th May, 2020.
38. One-week FDP on Python 3 organized by the University Department of Mathematics, TMBU, Bhagalpur, June 8 -14, 2020.
39. Participated – One Week Pedagogical Training for Teachers on Tools for Online Teaching Learning and Evaluation, organized by School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded, July 1-6, 2020
40. Participated – One-week FDP on “Applicability of Mathematical Sciences in Emerging World” organized by Department of Applied Sciences and Humanities, Invertis University, Bareilly (U.P) from 28th July to 2nd August 2020.
41. Participated – One-week FDP on Application of Mathematical Sciences in Engineering and Technology organized by TEQIP-III RTU(ATU) from September 23-27, 2020.
42. Participated - Refresher Course conducted by Teaching Learning Centre of Ramanujan College University of Delhi under PMMMNTT, March 16 – 30, 2021 with A+ grade.
43. Participated – 15 days FDP on Usage of ICT in Education: Challenges and Opportunities during COVID-19 under Teaching Learning Centre (PMMMNTT) of Hansraj College University of Delhi College in collaboration with Department of Mathematics, Chaudhary Charan Singh University, Meerut, July 2-15, 2021.
44. Participated – Three-day FDP on Fluid Dynamics and its Applications in Engineering Sciences by the department of Mathematics and Statistics at CVR College of Engineering from August 7-9, 2020
45. Participated - National Webinar “Career Prospects” jointly organised by Dr. Ambedkar College, Nagpur and Seth Kesarimal Porwal College of Arts, Science and Commerce, Kamptee on August 21, 2021
46. Participated – One-week FDP on ‘Creation and development of MOOCs while managing online classes’ organized by Keshav Mahavidyalaya, University of Delhi under Teaching Learning Centre (PMMMNTT) of Hansraj College University of Delhi College from 24th August -3rd September, 2021.
47. Paper presented- Analytical study of radiation absorption effect on unsteady MHD free convection flow past a periodically accelerated plate with variable temperature in 27th International Conference of International Academy of Physical Sciences on Recent Advances in Mathematical and Computational Optimization organized by Jawaharlal Nehru University on 26-28, October 2021
48. Paper presented -Slip Effects on Unsteady MHD Free Convective flow of RivlinEricksen fluid in the presence of heat source/sink in First International Conference on Technologies for Smart Green Connected Society, November 29-30, 2021
49. Participated – One-week FDP on “Multivariate Analysis & Structural Equation Modelling” organized by Shivaji College, University of Delhi under MHRFDC, Hansraj College during 27th November- 3rd December, 2021.
50. Participated – One-week FDP on “MOOCs AND ECONTENT DEVELOPMENT” organised by Shivaji College, University of Delhi under MHRFDC, Hansraj College, November 23-27, 2022.
51. Participated- One-week online Faculty Development Program on "LaTeX and MATLAB-2023 (Indispensable Tools for Research)” organized by Department of Mathematics, G H Raisoni College of Engineering, Nagpur sponsored by the Atomic Minerals Directorate for Exploration and Research (AMD), DAE, Govt. of India, Hyderabad from 30th January to 03rd February 2023.

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

Awards and Distinctions

1. Commissioned as Lieutenant on 17.07.2019 with NCC no. NCC/04310021
2. Got Appreciation letter from Brig. Harbir Singh, YSM SM (Group Commander) for excellent contribution in NCC activities at Group headquarter 'B', Kirti Nagar, New Delhi on 31.08.2020.
3. Got YUVA SOCH RATAN PURASKAR for contribution in NCC by YUVA SOCH ARMY NGO on 01. 08.2021.
4. Got ADG award for excellence services in NCC as Associate NCC officer at NCC Bhawan, Rohini, New Delhi on 30.01.2022

Memberships

- Life membership of Indian Mathematical Society with membership Number L/2019/150
- Life membership of Ramanujan Mathematical Society with membership Number 1551

Other Academic Activities

1. Delivered two lectures on Leadership in Orientation programme of CTs at 7DGBN NCC Kirti Nagar on March 26, 2021.
2. Delivered a lecture in National Webinar on "Introduction to Mathematica" at Seth Kesarimal Porwal College of Arts and Science and Commerce, Kamptee, on 03.08.2021
3. Delivered a lecture on Application of Mathematica in understanding mathematical concepts at Amity University, U.P on 28.10.2021.
4. Chaired a session in the 27th International Conference of International Academy of Physical Sciences on Recent Advances in Mathematical and Computational Optimization on 26-28, October 2021.
5. Resource person at National Conference on "Mathematical Modelling and its Applications" in Kamban College of Arts and Science for Women, Tirunnamalai on 26th April 2022.
6. Delivered a lecture on "Introduction to Mathematica" at Institute of Technology and Science, Mohan Nagar, Ghaziabad on 1st June, 2022.
7. Delivered lectures on the topics "Gender Inequality-Different Perspectives and Domestic Violence in India" at Govt. College for Girls, Cheeka, Kaithal on 26.11.2022.
8. Delivered two invited lectures on "Research Paper writing with mathematical operators and symbols in LaTeX" in one-week workshop on "Scientific & Technical Research Scripting Using LaTeX" scheduled from 13.02.2023 to 17.02.2023 organised by Department of Mathematics, SRM UNIVERSITY DELHI NCR, SONIPAT, HARYANA
9. Organising NCC Fest "Lakshay" since 2015
10. Organized Mathematics Department Fest "Infinity-23"
11. Organized an Academic Talk on "Multiple Integrals: Some odds and ends" on October 15th 2022 for the Graduation students of Department of Mathematics, Shivaji College, DU
12. Organized an Academic Talk on " Graph Theory and its Applications" on September 17, 2023 for the Graduation students of Department of Mathematics, Shivaji College, DU
13. Organised a two days International Conference on "Analysis and its Applications" (ICAA-23) February 27-28, 2023.

14. Delivered two lectures on Leadership in Orientation programme of CTs at 7DGBN NCC Kirti Nagar on March 26, 2021.
15. Delivered a lecture in National Webinar on "Introduction to Mathematica" at Seth Kesarimal Porwal College of Arts and Science and Commerce, Kamptee, on 03.08.2021
16. Delivered a lecture on Application of Mathematica in understanding mathematical concepts at Amity University, U.P on 28.10.2021.
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19. Delivered a lecture on "Introduction to Mathematica" at Institute of Technology and Science, Mohan Nagar, Ghaziabad on 1st June, 2022.
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Cultural/Extracurricular Activities

1. Participated-Pre-Commission Course at Officers Training Academy, Gwalior, 06th August – 03rd November 2012
2. Participated- N.S.S Camp Organized by Punjab University with theme 'Healthy Youth for Healthy India' at Village Malookpur, December 25-31, 2009
3. Participated- N.S.S Camp Organized by Punjab University with theme 'Healthy Youth for Healthy India' at Village Rampura Narainpura, 25th December, 2011 to 02nd January, 2012.
4. Participated- N.S.S Camp Organized by Punjab University with theme 'Healthy Youth for Healthy India' at Guru Nanak College, Muktsar, October 13-19, 2013.
5. Commissioned as Lieutenant on 17.07.2019 with NCC no. NCC/04310021
6. Completed the COVID-19 training for NCC Cadets on 2nd May 2020 conducted by Department of Personnel and Training under IGOT.
7. Participated- All India Girls Trekking Expedition (Ajmer Trek) 2021 conducted by 11 Raj Bn NCC, Ajmer 9Raj.) under the aegis of NCC Group Headquarters, Udaipur and NCC Directorate Rajasthan, November 17-24, 2021.
8. Participated - EBSB SNIC-Srinagar, June 15-26, 2023.



Signature of Faculty Member