



## Ram Lal Anand College, University of Delhi



<b>Title</b>	DR.	<b>First Name</b>	PAWAN	<b>Last Name</b>	KUMAR	<b>Photograph</b>
<b>Designation</b>	Assistant Professor					
<b>Address</b>	H.No. 110, Gali No.3, Shibbanpura, Ghaziabad , Uttar Pradesh, 201001					
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<b>Institutional Web page</b>	<a href="https://rlacollege.edu.in/">https://rlacollege.edu.in/</a>					
<b>Google Scholar</b>	<a href="https://scholar.google.com/scholar?hl=en&amp;as_sdt=0%2C5&amp;q=pawan+kumar++maitreyi+&amp;dq=">https://scholar.google.com/scholar?hl=en&amp;as_sdt=0%2C5&amp;q=pawan+kumar++maitreyi+&amp;dq=</a>					
<b>Research Gate</b>	<a href="https://www.researchgate.net/scientific-contributions/Pawan-Kumar-2047384277">https://www.researchgate.net/scientific-contributions/Pawan-Kumar-2047384277</a>					
<b>ORCID ID</b>	0000-0002-6642-1436					
<b>Scopus ID</b>						
<b>Researcher ID</b>						
<b>Vidwan ID</b>	402973					
<b>Educational Qualifications</b>						
<b>Degree</b>	<b>Institution</b>				<b>Year</b>	
Ph.D	Dr. A.P.J. Abdul Kalam Technical University, Lucknow , Uttar Pradesh, India				2020	
M.Sc	C.C.S University, Meerut, Uttar Pradesh, India				2010	

B.Sc (H) Mathematics	Deen Dayal Upadhyay College, University of Delhi, India	2008
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### Career Profile

Organization/Institute	Designation	Duration
Ram Lal Anand College, New Delhi, India	Assistant Professor	27 <sup>th</sup> June, 2023 to Till date
Maitreyi College, New Delhi, India	Assistant Professor (Ad-hoc)	24 <sup>th</sup> July, 2013 to 27 <sup>th</sup> June, 2023
YMCA University of Science & Technology, Faridabad (Haryana), India	Assistant Professor(Guest)	27 <sup>th</sup> July 2011 to 26 <sup>th</sup> April, 2013

### Administrative Assignments

- Convener, The Career Counselling and Placement Cell , Ram Lal Anand College (2024-till date )
- Member, Anti-Ragging Committee, Ram Lal Anand College (2024-till date )
- Convener, Help Desk Committee (Admission) SC/ST/OBC/PwD, Ram Lal Anand College (2024-till date )
- Member, EOC, Ram Lal Anand College (2023-2024)
- Member, The Career Counselling and Placement Cell , Ram Lal Anand College (2023-2024)
- Member, Placement Cell of Maitreyi College for the period 2018-2019 to 2019-2020.
- Teacher Coordinator , Placement Cell of Maitreyi College for the period 2020-2021.
- Co-convener of Placement Cell, Maitreyi College, for the period 2021-2022 to 2022-2023 .
- Member, Internal Quality assurance Cell (IQAC) of Maitreyi College for the period 2020- 2021to 2022-2023
- Coordinator of Ramanujan Mathematical Free Classes for IIT JAM and DU Entrance, Department of Mathematics , Maitreyi College , period 2018-2019 to 2022-2023.

### Areas of Interest / Specialization

Fixed Point Theory and Its Applications

<b>Subjects Taught</b>
Real Analysis, Algebra, Numerical Analysis, Calculus, Differential Equations.
<b>Research Guidance</b>
<ol style="list-style-type: none"> <li>1. Successfully mentored four undergraduate students in a research project titled 'Mathematical predictions for COVID-19 as a global pandemic' under the two-month Summer Internship Programme organised by Centre for Research, Maitreyi College, University of Delhi from May 25 – July 25, 2020</li> <li>2. Successfully mentored four undergraduate students in a research project titled 'Mathematical Analysis on COVID-19 under the two-month Summer Internship Programme organised by Centre for Research, Maitreyi College, University of Delhi from May 25 – July 25, 2020</li> <li>3. Successfully mentored four undergraduate students in a research project titled 'AI Wars: Google and ChatGPT in a Battle for Predominance' under the two-month Summer Internship Programme organised by Centre for Research, Maitreyi College, University of Delhi from May 23 – July 23, 2023</li> </ol>
<b>Publications Profile</b>
<ol style="list-style-type: none"> <li>1. Bindu Mangla, Anupama Rajput and Pawan Kumar, Seismic activities in Relation of Ionosphere, International journal of engineering research &amp; Technology, Vol6, No- 9, pp19- 24 (2013).</li> <li>2. Arun Garg, Z. K. Ansari and Pawan Kumar, Unique fixed point theorems on generalized cone metric spaces , Adv.Inequal.Appl, 2014.</li> <li>3. Arun Garg, Pawan Kumar and Z. K. Ansari, Common fixed point theorems for two weakly compatible mapping on <math>D^*</math> cone metric spaces, Journal of Advanced Studies in Topology, (5:4), 2014, 31-28.</li> <li>4. Arun Garg , Z. K. Ansari and Pawan Kumar, Fixed point theorems on increasing functions in complete partial metric spaces (CPMS), Journal of Advanced Studies in Topology, (6:3), 2015, 117-124.</li> <li>5. Arun Garg, Z.K. Ansari and Pawan Kumar, Fixed point theorems in intuitionistics fuzzy metric spaces, Applied Mathematics , 2016, 7, 569-577.</li> <li>6. Balbir Singh and Pawan Kumar, Fixed points theorems foe variants of compatible mappings of types in menger spaces, Quest Journal of Research in Applied Mathematics , Vol.2, No.12 (2016), 20-26.</li> <li>7. Pawan Kumar, Z. K. Ansari and Arun Garg, Fixed point theorems for rational contraction mapping in cone b-metric spaces, South East Asian J. of Math &amp; Math Sci, Vol 13, No.1, 2017, 111-124.</li> </ol>

8. Pawan Kumar and Z.K.Ansari, Some fixed point results in cone metric spaces for rational contractions, South East Asian J. of Math & Math Sci, Vol 13, No.2, 2017, 125-132 .
9. Balbir Singh, Pawan Kumar and Z .K .Ansari, Common fixed point theorems in fuzzymetric spaces using CLR property, Fuzzy Mathematical Archive , Vol.13, No.2, 2017, 173-190.
10. Balbir Singh, Pawan Kumar and Z. K. Ansari, Variants of compatible mappings in menger spaces , Journal of Advance in Mathematics and Computer Sciences , 25(6),1- 5, 2017.
11. Pawan Kumar and Z. K. Ansari, Some common fixed point theorems of contractive mapping in cone b-metric spaces, International journal of Mathematics and its Applications , Vol 5,No.4, 2017.
12. Pawan Kumar, Z. K. Ansari and Balbir Singh, Compatible mappings of types using implicit relations in fuzzy metric spaces, International Journal of Advance in Mathematics, vol 2018, 61-74, 2018.
13. Pawan Kumar, Balbir Singh and Z. K. Ansari , Variants of compatible mappings in fuzzy metric spaces, Annals of Fuzzy Mathematics & Informatics, Vol 15, No.2, 169- 180, 2018.
14. Pawan Kumar and Z .K. Ansari, Some fixed point results in cone b-metric spaces, International Journal of Advance in Mathematics, vol 2018, No.4,280-89,2018.
15. Pawan Kumar, Z. K .Ansari and Arun Garg , Fixed point theorems in partial b-metric spaces using contractive conditions, Asian Research Journal of Mathematics, 8(4), 1- 11, 2018.
16. Manju Kumari and Pawan Kumar, Novel image encryption scheme with hoffman encoding and steanography technique, International Journal of Network Security and its Application , Vol 11, No.4, July 2019 .
17. Ajay Kumar Singh, Pawan Kumar and Z. K. Ansari, Some fixed point results in parametric metric space, J.Math.Comput.Sci, 10 (2020), No.6, 3143-3158.
18. Ajay Kumar Singh, Pawan Kumar and Z. K. Ansari , Common fixed point theorems inmenger space using the notation of CLR and JCLR property, Journal of Advances and Scholarly Researches in Allied Eduction, Vol.17, No.2,202-208
19. Balbir Singh, Vishal Gupta and Pawan Kumar, Existence of fixed point of meir keeler type contractive conditio in fuzzy metric spaces , Electronic Journal of Mathematics Analysis and Applications , Vol9(1), Jan, 2021, 216-225.
20. Pawan Kumar, Neeru Yadav and Balbir Singh, Common fixed point theorems for weakly compatible mappings using generalized  $\emptyset$ - weak contraction, J.Math.Comput.Sci , 11(2021),No.1,661-676.

21. Aarju, Pawan Kumar and Balbir Singh, Weakly commuting mappings and variants for generalized  $\emptyset$ - weak contraction in metric spaces , J.Math.Comput.Sci, 11, (2021), No.2, 1286-1304.
22. Anamika, Balbir Singh , Pawan Kumar & Sanjay Kumar , Common fixed points for generalized  $\varphi - \emptyset$  weak contraction in metric space, J.Math.Comput.Sci , 11(2021), No.5, 6365-6391.
23. Neeru Yadav, Pawan Kumar, Dharmendra Kumar and Balbir Singh, Adv. Fixed Point Theory , 2021, 11:17
24. Z. K .Ansari, Pawan Kumar and Balbir Singh, Fixed point theorems in menger space using the notation of CLR and JCLR property, Proceedings of the Jangeon Mathematical Society, 24(2021), No.4, 439-445.
25. Sanjay Kumar, Anamika , Pawan Kumar and Balbir Singh, R-weakly commuting mappings for generalized  $\varphi - \emptyset$  weak contraction in metric spaces, South Asian Journal of Mathematics , 2021, vol.11(1), 12-29.
26. Sonu , Balbir Singh and Pawan Kumar, Fixed point theorem for six mappings involving cubic terms of  $G(x,y,z)$  in  $G$  -metric spaces, Global Journal of Pure & Applied Mathematics , Vol.17, 2021, 353-370.
27. Vishal Gupta, Balbir Singh and Pawan Kumar, CLR property in menger spaces and related common fixed point theorems , Italian Journal of Pure and Applied Mathematics, 2022, No.1, 1-18.
28. Pawan Kumar , Common Fixed point theorems using variants compatible mapping in fuzzy metric spaces is published in TuijinJishu/Journal of Propulsion Technology ISSN: 1001-4055 Vol. 44 No. 5 (2023)
29. Pawan kumar and Z.K.Ansari, Some fixed point theorem under contraction condition using linear and rational Expression in dislocated metric space is Accepted in TWMS J.App & Eng. Math (2023).
30. Pawan Kumar & Z.K.Ansari , Some fixed point theorem satisfying generalized contraction conditions in dislocated metric space is Accepted in international journal of nonlinear analysis and applications.

Ph.D Thesis Evaluations:

S.No	Year	Title of Thesis	Institution	Name of candidate
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1.	2022	Modification in functions of scalar and matrix argument	Madhyanchal Professional University	Mamta Lata Chouhan
2.	2023	Studies on fixed point theorems using different iterations	Madhyanchal Professional University	Kamlesh Kumar Bakariya
3.	2023	Transportation Models and its Application Area to optimize the Objective Functions	Madhyanchal Professional University	Shakti Bhatt

### Conference Organization/ Presentations

#### Events Organized:

##### Resource Person

- Keynote Speaker in The International Conference on "Recent Advances & Application in Pure & Applied Mathematics and Allied Area" Organized by Department of Mathematics & Stat, Christian Eminent College Indore & Research Foundation of India From 05 Oct to 07 Oct, 2021.
- Resource Person in Mathematica National Mathematics Day in Collaboration with Institution's innovation Council on "Career Opportunities in Mathematics" Organized by Department of Mathematics, Sant Hirdaram Girls College, Bhopal, (M.P), India From 15 Dec 2022 to 21 Dec, 2022.

#### Conference Paper presentations:

1. Pawan Kumar and Z .K. Ansari, Fixed point theorems in menger space using the notation of CLR and JCLR property, In 3rd International Conference on Modern Mathematical Methods and High Performance in Science and Technology organized by Inderprastha Engineering College , Ghaziabad , India on January 9-11, 2020.

#### International / National Conferences Attended

- National conference "recent trends Engineering technology & management for sustainable development" (Rtetmsd-2013) on 13<sup>th</sup> august, 2013 MVN University , Palwal (Haryana).
- 1<sup>st</sup> National conference "new innovations in science, technology & management" NISTM-12 Organized by Rattan institute of technology & management, Saveli (Palwal).
- International conference on Emerging Trends & development in science, management and

technology ICETDSMT-2013 ( Raj kumar Goel Institute of Technology, Ghaziabad).  
International conference on cognitive computing & information processing CCIP-2015( JSSATE,NOIDA ).

#### **Workshop attended**

- Gain Course entitled “ The Fixed Point Problem: The Old and The New” During Feb 04-08, 2025 Organized by the Department of Mathematics, Aligarh Muslim University, Aligarh, India.
- International Workshop " Fixed point Theory and its applications on March 15-17,2019
- National Workshop " R-Software " on 15th , 2019.

#### **Research Projects (Major Grants/Research Collaboration)**

**NIL**

#### **Awards and Distinctions**

1. Qualified Joint CSIR-UGC Test for JRF and Eligibility for Lecturership held in June,2012 in Mathematical Science.
2. Young Scientist Award in 2021 by VDGGOOD Professional Association, Trivandrum,India.
3. Award of Excellence in 2023 by Delhi School of Communication, Delhi, India.

#### **Association With Professional Bodies**

1. President - Delhi NCR of Department of Research and Innovation Wing, ResearchFoundation of India. Indore (M.P).
2. Editorial Board Member of American journal of Applied Mathematics (AJAM).
3. Editorial Board Member of American Journal of Mathematical and ComputerModeling (AJMCM).
4. Editorial Board Member of International Engineering journal For Research &Development.
5. Editorial Board member of Acta Scientific Computer Sciences (ASCS).
6. National Reviewer Board Member of Bulletin of Pure & Applied Sciences -Maths&Stat (Started in 1982).
7. Life member of the Indian Library Association.
8. Life member of the Indian Mathematical Society.
9. Life member of the Ramanujan Mathematical Society.

#### **Other Activities**

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Dr. Pawan Kumar

**Signature of Faculty Member**