Department of Mathematics

1. Name : **Dr. Padmavati**

2. Designation : **Professor**

3. Educational Qualification : **M.Sc., Ph. D**

4. Specialization in P.G. : **Hydromechanics and SpecialFunctions**

5. Ph. D. Supervised : **04**

6. Details of Research Project ; **Nil**

7. Email Address :

padmavati.sudha@rediffmail.com
padmavati.sudha62@Gmail.com

8. Teaching Experience : **40 Years**

9. Detail of Research (In Brief) : **Working in Fourier series, fixed Points, wavelets.**

10. Whether you are a recognized Supervisor for Ph.D. Guidance? : yes

If yes, Give details

S. No.	Name	Topic	Year (Awarded/Ongoing)
1	Anil Kumar Tiwari	Stochastic Analysis Of Some Queueing AndReliability Models Of Computer System	2011
2	Subhas Chandra Srivastava	A Study Of Fixed Point Theorems In VariousSpaces With Applications In Fractal Theory	2012
3	Reshma K. P.	Studies On Certain Aspects Of Fixed Points AndBest Proximity Points In Different Topological Spaces And Their Applications	2016
4	Kavita Sakure	A Study Of Convergence Of Various Iterative Algorithms For Nonlinear Mappings	2022

5	Rashmi Verma	Approximations on Fixed points for NonlinearOperators Through Iterative Algorithms with Applications	Thesis submitted
6	Heeramani Tiwari	Some Fixed point Theorems for Generalized weakContraction Mappings with Applications	Ongoing
7	Anil Kumar Mishra	Some Fixed Points Results in Cone Metric Spacesover Banach Spaces with Applications	Ongoing

Published Papers in National / International Journals

1. Some fixed point results on $\tau - \psi$-Berinde contraction mappings in partial metric space, Eng. Math. Lett., 2049-9337, (2025), 2025:4.

2. Some new common fixed point results for pair of contractive maps in cone metric spaces over Banach algebra, Malaya journal of matematik, 2319-5666, 13(02)(2025), 208-218.

3. Results concernig generalized integral type contraction mapping in cone metric spaces with Banach algebra, Eng. Math. Lett., 2049-9337, 2025(2025), ID-5.

4. New fixed point theorem for generalized expansion mappings utilizing Banach algebra, Communications in Mathematics and Applications, 0975-8607, 16(01) ,2025,55-65.

5. Some fixed point results on generalized weak contractions in partial metric spaces with an application, Communications in Mathematics and Applications, 0975-8607, 15(2) (2024) 605-618.

6. Some fixed point results on $(\alpha, \beta)-H-\varphi$-contraction mappings in partial metric spaces with application, Communications in Mathematics and Applications, 0975-8607, 15(1) (2024), 133-144.

7. Approximation of fixed point via new iterative process for generalized nonexpansive mappings in Banach spaces, Advances in Fixed Point Theory, (2023) 1927-6303, 13:12.

8. Berinde-Type Generalized α - β - Contractive Mappings in Partial Metric Spaces and Some Related Fixed Points, Asian Research Journal of Mathematics (2023) , 69-78, 2456-477X, 19(11).

9. Fixed point of almost generalized $(\alpha, \psi, \varphi, \vartheta)$-contractive type mappings in weak partial metric spaces, Malaya Journal of Matematik (2023), 241–253, 2321 – 5666, 11(S).

10. Some results on almost generalized $(\alpha, \beta, \psi, \varphi)$ – Geraghty type contractive mappings in partial metric spaces, Annals of Mathematics and Computer Science (2023), 84-96, 2789-7206, 13.

11. Some fixed point theorems on almost generalized α- β- $\psi\varphi$- ϑ) contractive mappings in partial metric spaces, Annals of Mathematics and Computer Science (2023), 10-22, 2789-7206, 12.

12. Some Fixed Point Results on Boyd-Wong Type Generalized (α, ψ, F)-Geraghty Contraction Mappings in Partial Metric Spaces with Application, Journal of Advances in Mathematics and Computer Science (2023), 181-193, 2456-9968, 38(9).

13. A Fixed Point Theorem for Generalized (ψ-φ) Weak Contraction Mappings Involving Rational Type Expressions in Partial Metric Spaces, International Journal of Mathematics and its Applications (2022), 1-8, 2347-1557, 10(4).

14. Some fixed point theorem in ordered G-cone metric spaces over Banach algebra, International Journal of Mathematics and its Applications (2022), 29-38, 2347-1557, 10(4).

15. Fixed Point Approximation of Countably Infinite Family of Nonexpansive Mappings, South East Asian Journal of Mathematics and Mathematical Sciences, (2021), 361-382, 0972-7752, 17(1).

16. Convergence Results for Proximal Point Algorithm in Complete CAT(0) Space for Multivalued Mappings, Journal of the Indonesian Mathematical Society (2021), 29- 47, 2086-8952, 27(1).

17. Internal Picard Normal S – iteration Process, Nonlinear Functional Analysis & Applications, 2021, 995 – 1009, 1229-1595, 26(5).

18. On Approximation of Fixed Point in Busemann Space via Generalized Picard Normal S-iteration Process, Malaya Journal of Matematik (2020), 1055- 1062, 2319 – 3786, 8(3).

19. Strong and ΔConvergence Results for Generalized Nonexpansive Mapping in Hyperbolic Space, Communications in Mathematics and Applications, (2020), 389-401, 0976-5905, 11(3).

20. Fixed point theorems for cyclic contractions in Bmetric spaces, Journal of Nonlinear Functional Analysis (2015), 2052-532X, 2015:5.

21. An iterated function system due to Reich, Bulletin of Calcutta Mathematical Society(2012) 211- 218, 0008-0659, 104(3).

22. An iterated function system for commuting mapping, International Journal of Pure and Applied Mathematics (2011), 975-982, 1311-8080, 70(7).

23. Iterated function system in D-metric space, Applied Mathematical Sciences (2011), 1705-1711, 1312-885X, 5(35).

24. An Approximation of mean strong uniform convergence of vector valued Fourier series, Bulletin of Calcutta Mathematical Society, 0008-0659, 86.

25. On the absolute Hausdroff convergence of Fourier series, Vijnana Parishad Anusandhan Patrika, Vol. 35.

Participation in National / International Conferences

1. National Mathematics Day Celebration, Organized by Govt. V.Y.T. PG. College, Durg (C.G.) in Collaboration with Govt. Madhav Science College, Ujjain (M. P.) and Institute of Excellence in Higher Education, Bhopal (M.P.) on Dec. 29, 2021.
2. National Webinar on Prospects & Challenges for Future NAAC Accreditations in Colleges, organized by IQAC, Govt. V.Y.T. PG. Autonomous College, Durg (C.G.) on June 14, 2020.
3. National Mathematics Day Celebration, Organized by Govt. V.Y.T. PG. College, Durg (C.G.) in Collaboration with Govt. Madhav Science College, Ujjain (M. P.) and Institute of Excellence in Higher Education, Bhopal (M.P.) on Dec. 29, 2020.

4. National Webinar on COVID – 19 and its Impact on Indian Economy organized by Department of Economics, Govt. V.Y.T. PG. Autonomous College, Durg (C.G.) on June 4, 2020.
5. Online FDP ON Teaching Mathematics Effectively in Online Mode : Various ICT Tools & Software, Organized by Tech Edu Teacher, VIT Vellore .National Seminar on EHMTSD(URJA2015) on Aug. 9,2020.
6. National Mathematics Day Celebration, Organized by Govt. V.Y.T. PG. Auto. College, Durg (C.G.) on 23/12/2019.
7. International Womens Day Celebration on 8/3/2019.
8. Stare Level Workshop on National Mathematics Day Celebration, Organized by CCost, Raipur on 21-22/12/2018.
9. International Womens Day Celebration on 8/3/2019.

CONVENER

1. **National Conference** on "Establishing kinship between Mathematical Sciences & Society" (**NCKMS 09**), Sponsored by U.G.C., C.S.I.R. & Department of Higher Education Govt. of C. G. Oct. 30-31 2009
2. **National Workshop** on "Recent Trends in Graph Theory & Cryptography" (**NWRGC 11**), Sponsored by University Grants Commission (U.G.C.), Chhattisgarh Council of Science & Technology (COST) & Department of Higher Education Govt. of C. G. Oct. 11-13, 2011.
3. **National Seminar** on "The Rich Heritage of Mathematics in India" (**NSRHMI - 12**) Sponsored by Chhattisgarh Council of Science & Technology (COST) Oct. 26- 27, 2012.
4. **National Mathematics Day Celebration,** Organized by Govt. V.Y.T. PG. College, Durg (C.G.) in Collaboration with Govt. Madhav Science College, Ujjain (M. P.) and Institute of Excellence in Higher Education, Bhopal (M.P.) on Dec. 29, 2020.
5. **National Mathematics Day Celebration,** Organized by Govt. V.Y.T. PG. Autonomous College, Durg (C.G.) Catalyzed by Chhattisgarh Council of Science & Technology (CCOST) and National Council for Science & Communication (NCSTC), DST, Govt. of India, New Delhi on Dec. 29, 2021.
6. **National Mathematics Day Celebration, (Online)** Organized by Govt. V.Y.T. PG. Autonomous College, Durg (C.G.) Catalyzed by Chhattisgarh Council of Science & Technology (CCOST) and National Council for Science & Communication (NCSTC), DST, Govt. of India, New Delhi in association with Govt. Madhav Science College, Ujjain (M. P.), Institute of Excellence in Higher Education, Bhopal (M.P.), Bastar University, Jagdalpur (C.G.) and Bhilai Institute of Technology, Durg (C.G.) on April 13, 2022.
7. **National e-Workshop for NET / SLET Aspirants (NeWNA-23),** Organized by Govt. V.Y.T. PG. Autonomous College, Durg (C.G.) Sponsored by Rashtriya Uchchatar Shiksha Abhiyan (**RUSA**) in collaboration with Govt. Madhav Science College, Ujjain (M. P.), Institute of Excellence in Higher Education, Bhopal (M.P.), Bastar University, Jagdalpur (C.G.) and Bhilai Institute of Technology, Durg (C.G.) March 13-18, 2023.
8. **National Mathematics Day Celebration, (Online)** Organized by Govt. V.Y.T. PG. Autonomous College, Durg (C.G.) Catalyzed by Chhattisgarh Council of Science & Technology (CCOST) and National Council for Science & Communication (NCSTC), DST, Govt. of India, New Delhi on March 20, 2023.
9. **Workshop on "MATLAB: Applications in Sciences,** Sponsored by Rashtriya Uchchatar Shiksha Abhiyan (**RUSA**) in collaboration with Bhilai Institute of Technology, Durg (C.G.) July 06-10, 2023.
10. **National e-Workshop for NET / SLET Under the scheme of Career Guidance,** Organized by Govt. V.Y.T. PG. Autonomous College, Durg (C.G.) Sponsored by Rashtriya Uchchatar Shiksha Abhiyan (**RUSA 2.0**) in collaboration with Govt. Madhav Science College, Ujjain (M. P.), Institute of Excellence in Higher Education, Bhopal (M.P.), Bastar University, Jagdalpur (C.G.) and Bhilai Institute of Technology, Durg (C.G.) October 14 – 16, 25 – 26, 2025.
11. **National e-Workshop on Introduction to LATEX** Under the Scheme of Capacity Building (RUSA 2.0), Organized By Department of Mathematics Govt. V. Y. T. PG. Autonomous College, Durg (C. G.) In

Collaboration With Institute for Excellence in Higher Education, Bhopal (M. P.) Bhilai Institute of Technology, Durg (C. G.) Govt. B.C.S. PG. College, Dhamtari (C.G.) Govt. Dr. Shyama Prasad Mukherjee Sc. & Commerce College, Bhopal (M. P.) October 28 – 31 & November 1, 2025.

Other Responsibilities: - Work Allotted

In charge / Member of various Committees / External Responsibilities: -
College Administration:- Deputy Controller Autonomous Examination Cell, Convener – Placement Cell, IQAC Cell, Admission Committee, College Website Committee, TA/ DA Payment of Resource person and Students Committee in Young Scientist Congress C. G., Value Added Course and Certificate Course, Member – UGC Cell, Internal Audit, API Scrutiny Committee, Board of Studies, NAAC (Preparation of SSR Committee, Criteria 4), Discipline Committee, Session Committee in INSPIRE Program, DRC Committee, Incharge – Departmental Library, Asstt. Superintendent annual exam (Autonomous).

CG PSC VYAPAM:- Confidential Work Assistance Coordinator, Observer, Superintendent, Assistant Superintendent in various VYAPAM Examinations.

State Leve:- Member of State Level SSR.

Reviewer :- American Mathematical Society