

CURRICULUM VITAE

DR. SUBAL CHANDRA GHOSH

Father's Name: Late Manoranjan Ghosh

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Academic Profile:

1. Ph.D., D.A.V. College, C.S.J.M. University, U.P., India, 2007.
2. M.Sc., D.B.S. P.G. College, C.S.J.M. University, U.P., India, 2001.
3. M.C.A; S.M.U-2018.
4. B.Sc (Math. Hons.), S.R.S.V.M., The University of Burdwan, Burdwan (Kolkata), W.B., India, 1997.
5. Higher Secondary / Intermediate, West Bengal Council of Higher Secondary Education, (W.B.C.S.E), (W. B, Kolkata), 1993.
6. High School, West Bengal Board of Higher Secondary Education (W.B.B.H.S.E) (W.B, Kolkata),1991.

Qualification on FDP / Training Program

1. **Orientation Program (OR)** – Completed Orientation Program from Ramanujan College/Delhi University, 2020.
2. **Faculty Development Course (FDC)** – Topic “Emerging Technologies and Changing on Material Research” organized by Department of Basic Sciences and Santhiram Engineering College, Nandyal, A. P, India, 27 Jul – 1st Aug 2020.
3. **Refresher Course (RC)** – Completed Refresher Course from Ramanujan College/Delhi University, 2022.

Teaching Experience: 18 Years

Research Experience: 22 Years

Extra Qualifications

1. Short term Course on **Calculus for Economics, Commerce and Management, IITMadrsh-2019, NPTEL (Felicited by Hon'ble Ex-President Pranabh Mukherjee), Approved by UGC, NCTE.**
2. Short term Course on **Calculus of One variable IITM 2018, NPTEL (Felicited by Hon'ble Ex-President Pranabh Mukherjee), Approved by UGC, NCTE.**
4. **Award the Elite Grade on Short term Course on Calculus for Economics, Commerce and Management, IITB-2018, NPTEL (Felicited by Hon'ble Ex-President Pranabh Mukherjee), Approved by UGC, NCTE.**
5. Short term Course on **Integral Equations, Calculus of Variations and its Applications, IITR-2017, NPTEL (Felicited by Hon'ble Ex-President Pranabh Mukherjee), Approved by UGC, NCTE.**
6. Short term course on **Linear Algebra- Foundations to Fronriers, University Texas-2018.**
6. Short term course on **Pre- university Calculus, Arizona State University, 2018.**
7. Complete the **Domestic Data Entry Operator, N.S.D.C.L, New-Delhi, 2016.**

Research Interest:

Fixed point theorem, application of Fixed-point Theorem in Differential Equations, Integral Equations and Modelling.

Teaching Experience:

Present Position: Asst. Prof., Department of Mathematics, D.A-V.P.G. College, Kanpur, U.P. India, (2008-continue).

Lecturer, Department of Mathematics D.S.N.P.G. College, Unnao, U.P., India (2006-2008).

Research Project Grants:

1. Research project Granted from UGC-, Deposited on 22.12.2008, granted on 2010, 23/2/10 F. No 8-1(10)/2010 (MRP/NRCB)

Position: Co-Investigator

Project Title: "Application of contraction mapping principle for Existence and Uniqueness solution for higher order Differential Equation on Time Scale."

2. C. V. Raman Minar Research Project Scheme Granted by C.S.J.M. University, Kanpur, U.P, Dated 07.03.2024, letter no. CSJMU /P & C/CVR/313/2024

Project Title: "Banach Fixed Point Theory and its Application in Mathematical Modelling" Position: **Principal-Investigator**

Seminar/Conference/Workshop organized

1. Name of the Seminar: “**Nation Seminar on Mathematical Modeling and Its Application**”

Organizing Secretary

Sponsored by: C. S. J. M. University, Ref. No. - पत्रांक : सी.एस.जे.एम.वि.वि.

/साठप्रशाठ / 972/2024, Dated: 06.02.2024

Seminar held on: 18th and 19th, March, 2024.

Ph. D Supervision

Name of the Student: Nitin Kumar Singh

Reg No: PHD202300002352

Topic: “Banach Fixed Point theory in various spaces using different types of mappings and its applications” (Ongoing)

Extra Curriculum Activities:

1. Attended and presented the papers on Seminar/Conference/Workshop/Lecture Series

47 National and International Conferences and Seminars are attended

2. Guided the pre-Ph. D Course at D.A-V. College/C.S.J.M.University-2016.

Research / Project / Dissertation Guide M.Sc Students

1. Name of the student: Vaibhav Singh
Topic: Crypto System on the Algebraic Finite Extension Field
2. Name of the student: Priya Gera
Topic: Banach Fixed Point Theorem on Complete D-Metric Space
3. Name of the student: Alka
Topic: Some Properties and fixed-Point Theory on Complete 2-Metric Space
4. Name of the student: Anupam Arya
Topic: Some Properties and Application of Fredholm Integral Equations
5. Name of the student: Ankush Kumar
Topic: Generalization of Fixed-Point Theory on Complete Cone Metric Spaces
6. Name of the student: Manjeet Yadav
Topic: Ramanujan Integral
7. Name of the student: Mohit
Topic: Some Application on Network Topology
8. Name of the student: Prashant Pal

Topic: Some Properties and Application on Network Topology

9. Name of the student: Sandeep Kumar

Topic: Optimalization of Transportation problem by Using North West Corner and Vogel's Approximation Method

10. Name of the student: Sanskriti Seth

Topic: Job Sequencing

11. Name of the student: Vandana Devi

Topic: Fixed Point Theory on Complete E-Metric Spaces

12. Name of the student: Vanshika Gupta

Topic: Complete b-Metric Spaces and Fixed-Point Theory

13. Name of the student: Yasar Ahmad

Topic: Complete b-Metric Spaces and Fixed-Point Theory

14. Name of the student: Alisha

Topic: Complete Metric Space and Banach fixed Point theory

15. Name of the student: Diksha Verma

Topic: Fixed Point Theory on Complete 2-Metric Spaces

16. Name of the student: Shivani Verma

Topic: Generalized Fixed Point Theory on Complete D-Metric Space

17. Name of the student: Shiveccha Yadav

Topic: property and Fixed-Point Theory on Complete b-Metric Space

18. Name of the Students: Abhishek Sharma

Topic: Results on Cone Metric Space and Fixed-Point Theory

19. Name of the Students: Abhishek Mishra

Topic: Some Fixed-Point Theory on Complete Cone Metric Space

20. Name of the Students: Sidhant Tamang

Topic: Vector Space

21. Name of the Students: Vanshika Jaiswal

Topic: Generalized Fixed Point Theory on Complete b-Metric Space

22. Name of the Students: Vikas Kashyap

Topic: Complete b-metric Space and Fixed-point Theory

23. Name of the Students: Vinay Kumar Mishra

Topic: Banach Fixed-point theory on G-Metric Space

24. Name of the Students: Viresh Pratap Singh

Topic: Complete G-Metric Space and fixed-point theory.

25. Name of the Students: Kishan Singh

Topic: Some Banach fixed point and Banach Contraction mapping principle

26. Name of the Students: Nagendra Kumar Patel

Topic: Banach Contraction Mapping principle on Complete Metric Space

27. Name of the Students: Rishi Patel

Topic: D-Metric space and Banach Fixed point Theory.

Research Papers Presented on Conferences

1. Presented the research Paper- Properties and fixed point theorems in D-Metric Spaces in National Conference on Emerging Areas in Mathematical Sciences in First Quarter of The Century on Indian Society of Mathematics and Mathematical Sciences-11-13 Feb. 2005, Gorakhpur, U.P., India.
2. Presented the research Paper- 2-Metric spaces and fixed point theorem in 14th Annual Conference of Purvanchal Academy of Sciences-19-20 Feb. 2005. Janpur, U.P. India.
3. Presented the research Paper- Results on fixed point theorem in Metric spaces in 11th Annual Conference of VIJNANA PARISHAD OF INDIA (VPI) on Mathematical Modeling of Real-Life Problems and Computer Applications-12-15 May,2005, Agra, U.P. India.
4. Presented the research Paper- Fixed Point Theorem On ϵ -chainable Complete Metric spaces And Family of Mappings in Nation Conference on Mathematical Sciences and Technological Innovation Diffusion-Indian Society of Mathematics and Mathematical Sciences-2007, Gorakhpur, U.P., India.
5. Presented the research Paper- Study of fixed point in MNC of Metric spaces in 6th Nation Conference on Indian Society of Mathematics and Mathematical Sciences on Mathematical Sciences A Foundation of Science and Technology – 20-21 Feb. 2009, Gorakhpur, U.P., India
6. Presented the research Paper- Fixed Point Theorem In E-Metric Spaces in 6th Nation Conference on Indian Society of Mathematics and Mathematical Sciences on Mathematical Sciences A Foundation of Science and Technology – 20-21 Feb. 2009, Gorakhpur, U.P., India.
7. Presented the research Paper-Common Fixed Point Theorem in Complete Cone Metric Spaces in 7th Nation Conference of Indian Society of Mathematics and Mathematical Sciences on Recent Advances in Mathematical Sciences and its Applications-20-21 Feb. 2010, Gorakhpur, U.P., India.

8. Presented the research Paper- Banach Fixed Point Theorems on Complete Cone Metric Spaces and its Application to Find out Existence and Uniqueness solutions of Differential Equations; National year of Mathematics-2012; 9th National Conference organized by Indian Society of Mathematics and Mathematical Sciences on the Topic Interdisciplinary Applications of Mathematical and Statistical Techniques-25-26 Feb. 2012, Gorakhpur, U.P., India.
9. Presented the research paper –Comparison function and Fixed Point Theorem on Complete Cone Metric Spaces –To National Conference on Role of Mathematics in Advancement of Science and Technology; Sponsored by DST, Govt. of India and CSIR, New Delhi, Organized by Department of Mathematics, B.S.N.V.P.G. College and NSN BSNV Vigyan Parishad Lucknow -18-20 Oct.-2013.
10. Presented the research Paper-Generalized Fixed Point theorem on Complete N-Metric Spaces to 101th Indian Science Congress Association (ISCA-2014) organized by Indian Congress Association and University of Jammu, Jammu-03-07 Feb. 2014.
11. Presented the research Paper “Vedic Mathematics and Its Application” 1st National Conference, Relevance of Vedic mathematics in School and Colleges, Sponsored CSIR- New Delhi, Organized by Department of Mathematics, D.A-V. College, Kanpur, U.P. India, Oct. 2018.
12. Presented the research Paper “Banach Fixed point Theorem on Pixel Metric Spaces” at 106th Indian Science Congress Association on Future India: Science and Technology, Organized by Indian Congress Association and Lovely professional University, Jalandhar, 3-7 Jan.2019.
13. Present the research Paper “Application of Banach Contraction Mapping Principle”, National Seminar on “Recent Developments in Mathematics and Their Applications”, organized by D.B.S.P.G. College, Kanpur, U.P, 19th Jan. 2019.
14. Present the research Paper “Uniqueness Solution of the Bessel Equation using the Banach Fixed Point Theorem” on 107th Indian Science congress Association organized by Indian Science Congress Association and University of Agricultural Science, Bangalore, 3-7 Jan. 2020.

Membership of Professional / Academic Bodies

1. Life Membership – The Indian Science Congress Association.
2. Life membership – Calcutta Mathematical Society
3. Life Membership – Vijana Bharatiy, India.
4. Life membership – Indian Society of Mathematics and Mathematical Sciences.
5. Life Membership – Purvanchal Academy of Sciences
6. Member of Universal Set of Mathematicians.
7. Member of Journal of Mathematical Analysis and Application.
8. Seasonal member of Association for Advancement in Combinatorial Sciences.
9. Nominated Member of The Editorial Board- Glacier Journal of Scientific Research.
10. Life Member of IRDP Group of Journal

Members of Workshop/ Seminar/Conferences

1. Member of Organizing Committee, Member of Scientific and Technical Committee of National Level Workshop On Emerging Trends in Interdisciplinary Mathematical Sciences (Sponsored By C.S.I.R), Organized by Department of Mathematics, D.A-V.College, Kanpur, India-2011.
2. Member of 15th Annual Conference of Vijnana Parishad of India and A National Seminar on “New Thrust Area in Mathematical Sciences and Technology” Sponsored by UGC,CSIR and Organized by Deptt. Of Mathematics, D.A-V.College, Kanpur, India, 2011.
3. Member of Organizing Committee, Member of Scientific and Technical Committee of Sir S.Ramanujan Memorial National Level Work-Shop/Lecture Series In National Mathematical Year-2012 Sponsored by C.S.I.R, 18-22 Dec.,2012,organized by Department of mathematics ,D.A-V.College, Kanpur,U.P.,India.
4. Executive Member of National Seminar on Application of Statistics In Social Sciences, Organized by Department Of Statistics, D.A-V. College, Kanpur, U.P. India, November-2015.
5. Organizing Committee Member of National Seminar on Relevance of Vedic Mathematics in School and colleges, organized by Department Of Mathematics, D.A-V. College, Kanpur, U.P. India, October 12-13, 2018.

Publication of Research Work in Different Journals

1. S.C.Ghosh; M.Srivastava; Some Properties on fixed point theorem in Metrics space; Acta Ciencia Indica – Vol.XXXM, No. 2, 317-324, 2004.
2. S.C.Ghosh; M.Srivastava; Fixed Point theorem in 2-Metric space, Acta Ciencia Indica Vol. XXXM. No. 3, 535-544, 2004.
3. S.C.Ghosh; M.Srivastava; 2-Metric spaces and fixed point theorems Purv.Acad. Sc.; 2005.
4. S.C.Ghosh; M.Srivastava; Properties and Fixed Point theorems in D-Metric Spaces; Acta Ciencia Indica – Vol.XXX IM. No. 4, 1313-1324, 2005.

5. S.C.Ghosh; M.Srivastava; 2-Metric spaces and fixed point property. J \bar{N} \bar{A} N \bar{A} BHA(ISSN 0304-9892), Vol. 35, 78-88, 2005.
6. S.C.Ghosh; M.Srivastava; Results on fixed Point theorem in Metric spaces. Acta ciencia Indica, Vol. XXXIIM. No.2, 767-772, 2006.
7. S.C.Ghosh ; Fixed Point Theorem on ε -Chainable Complete Metric Spaces and Family of Mappings; Proc. Of The Indian Society of Mathematics and Mathematical Sciences (ISSN 2231-2838), Vol.5,81-89, 2007.
8. S.C.Ghosh ; M.Srivastava; Commutating Mapping and fixed Point Theorems in Complete Cone Metric Spaces, Proc. Of The Math. Soci. B.H.U(ISSN 0970-2838), Vol.25, 35-40, 2009.
9. S.C.Ghosh; M.Srivastava; Study of fixed point in MNC of Metric spaces; Acta ciencia Indica, Vol. XXXVI M. No.2, 223-228, 2010.
10. S.C.Ghosh ; Fixed point Theorem in E-Metric spaces; Acta ciencia Indica(ISSN 0970-0455), Vol. XXXVIII M. No.3, 421-425, 2012.
11. S.C.Ghosh; Common Fixed Point Theorem In Complete Cone Metric Spaces; Acta ciencia Indica, Vol. XXXVIII M. No.3, 447-451, 2012.
12. M.Srivastava; S.C.Ghosh; Akanksha Shukla; Some Basic Properties of Operators on Time Scale; Advances in Applied Mathematical Analysis; Vol.7, No.2, 71-75 -2012. (ISSN **0973-5313**)
13. A.Kumar; M.Srivastava; S.C.Ghosh; Common Fixed Point Theorem in complete cone Metric Spaces; Acta ciencia Indica, Vol. XXXVIII M. No.4, 695-700, 2012.
14. S.C.Ghosh; Modified Fixed Point Theorems on Complete Metric Spaces, JIGYASA (Mahakoshal Vigyan Parishad, Vigyan Bharati), Vol.6(1), 71-75, 2012.
15. S.C.Ghosh; A.Kumar; M.Srivastava; Banach Fixed Point Theorems on Complete Cone Metric Spaces and its Application to Find out Existence and Uniqueness solutions of Differential Equations, Advances in Applied Mathematical Analysis, vol.8, no.1, 2013.
16. S.C.Ghosh; Generalization of Common Fixed Point Theorems of H.L.Gung and Z.Xian in Complete Cone Metric Spaces; International Transactions in Applied Sciences; ISSN No 0975-3753, Vol.4, No.2, 239-244; 2012.
17. S.C.Ghosh; Common Fixed Point Theorem In Complete Cone Metric Spaces; International Transactions in Mathematical Sciences and Computer; ISSN No. 0975-3753, Vol.4, No.2, 405-409; 2011.

18. S.C.Ghosh; A.Shukla; Sequentially Complete E-Metric Spaces and Unique Fixed Point Theorems; International Journal of Applied Mathematical Sciences (ISSN 0973-0176);Vol.8, No.1, 71-76, 2015.
19. S.C.Ghosh; A.Kumar; M.Srivastava; Comparison Function and Fixed Point Theorem in complete Cone Metric Spaces; International Journal of Pure and Applied Mathematical Sciences (ISSN 0972-9828); Vol.8;No.2;101-104;2015.
20. S.C.Ghosh; A.Shukla; M.Srivastava;P.Singh;Some Generalized Banach Fixed point Theorems On Complete Cone Metric Spaces; International Journal of Pure and Applied Mathematical Sciences (ISSN 0972-9828); Vol.8;No.2; 105-115;2015.
21. S.C.Ghosh; A.Shukla;Cone Rectangular Metric Spaces and Banach Fixed Point Theorems; Asian Journal of Advance Basic Sciences;3(2); 35-40; 2015; ISSN (Online): 2347 – 4114; www.ajabs.org
22. S. C. Ghosh; A.Kumar; M.Srivastava; Some Fixed Point Theorems on Self Mappings and Commutating Mappings in Complete Cone Metric Spaces,JIGYASA (Mahakoshal Vigyan Parishad,Vigyan Bharati),ISSN No.2231-2978, Vol.10(1),53-58,2016.
23. M.Srivastava; S. C. Ghosh; Cone Metric Spaces, Cone Rectangular Metric Spaces and Some Common Fixed Point Theorems, International Journal of Mathematics trends and Technology, ISSN No. 2349-5758 Vol.47, No. 1,1-9,2017.
24. S. C. Ghosh; M.Srivastava; Generalized Fixed Point Theorem on Complete N-Metric Spaces, International Journal of Mathematics trends and Technology,ISSN No. 2349-2358,Vol.47, No. 1,10-15,2017.
- 25.S.C.Ghosh; Existence and Uniqueness Solution of Hyper Geometric Differential Equation Using Banach Fixed Point Theorem; International Journal of Pure and Applied Mathematical Sciences (ISSN 0972-9828);Vol. 12, No. 1, 1-4, 2019.

Papers are requested

1. A. Sangeetha., G.V.G. Visalakashmy College, Tamilnadu, India, Fixed Point Theorem in 2-Metric space.

(Dr. Subal Chandra Ghosh)