

## MR. SANYAM GUPTA



### Designation and Department:

Assistant Professor  
Department of Mathematics

### Education and Training:

Ph.D. Delhi Technological University, Delhi Technological University

M.Sc.(Maths) Hindu College University of Delhi

B.Sc.(Maths) Hons., Acharya Narendra Dev College, University of Delhi

### Contact info

B 11/2, 2<sup>nd</sup> Floor, Executive Floors  
Sector 5, Wave City  
Ghaziabad (Uttar Pradesh) -201002  
Phone: 9873150784

**Teaching Experience:** 6+ Years

**Research Experience:** 4+ Years

**Areas of Research Interest:** Operational Research

### Teaching Experience: (6+Years)

1. Teaching Experience as “**Assistant Professor of Mathematics**” at “**Bhaskaracharya College of Applied Science, University of Delhi**” from 3<sup>rd</sup> August, 2016 to 25<sup>th</sup> May, 2019.
2. Teaching Experience as “**Assistant Professor of Mathematics**” at “**Ramanujan College, University of Delhi**” from 27<sup>th</sup> January, 2020 to present.

### Subjects Taught:

1. Calculus
2. Linear Algebra
3. Differential Equations
4. Real Analysis
5. LaTeX & HTML
6. R Software
7. C++ Programming
8. Vedic Mathematics

### Other Academic Publications (Conference Proceedings)

1. Gupta, S. (2022). Sets and Logics. *Elements of Discrete Mathematic*, Department of Distance and Continuing Education (University of Delhi), pp. 4-28, ISBN: 978-93-95774-34-5.
2. Das, L.N, Gupta, S. (2020). Electrical Power System Transmission Quality and power supplier micro grid control functional reliability. *International Journal of System Assurance Engineering and Management*, pp.1-4, ISSN: 0975-6809. DOI: <https://doi.org/10.1007/s13198-019-00943-1> (**ESCI**)
3. Das, L.N, Gupta, S. (2020). Optimal Investment Decision Model Based on Simplex Algorithm with Variable Optimal Value Evaluation Process. *International Conference on Applied and Computational Mathematics*, pp.-433-443, ISBN: 978-981-15-3615-1. DOI: [https://doi.org/10.1007/978-981-15-3615-1\\_31](https://doi.org/10.1007/978-981-15-3615-1_31) (**SCOPUS**)
4. Das, L.N, Gupta, S. (2020). Role of Indian Economy in The Prosperity of the World Economy from 1<sup>st</sup> Century to 21<sup>st</sup> Century and Comparison With The Economy of USA And China. *International Journal of Multidisciplinary Educational Research*, pp.-237-245, ISSN: 2277-7881.
5. Das, L.N, Gupta, S. (2019). A Mathematical Decision Model for Banks Finance Investment. *International Journal of Latest Trends in Engineering and Technology*, 14(3), pp. 007-011, ISSN: 2278-621X.
6. Das, L.N, Gupta, S. (2019). A MATLAB Programming Applied in Gradient Search Method to Solve Quadratic Optimization Problem. *Emerging Trends in Information Technology*, pp.78-89. New Delhi: Bloomsbury India.
7. Gupta, S., Das, L.N. (2019). Suitable Iterated Convergent Algorithm Useful for Inspect a Local Optimum Becoming Global. *International Journal of Advance Science and Technology*, 28(16), pp.119-134, ISSN: 2005-4238. (**SCOPUS**)
8. Gupta, S., Das, L.N. (2019). Fibonacci Algorithm for Determining Minimum Value of a Unimodal Function Using MATLAB Program Computing Software. *International Journal of Recent Technology and Engineering*, 8(3), pp. 5277-5279, ISSN: 2277-3878. (**SCOPUS**)
9. Agarwal, S., Gupta, S. (2017). Solvability of Groups. *Applied Science Periodical*, 19(2), pp. 101-104, ISSN: 0972-5504.

### Invited/Keynote Lectures Delivered

1. Delivered pre-recorded lectures titled “ **TORA Software**” and “**MATLAB: An Introduction**” at “**Refresher Course in Mathematics**” organized by Department of Mathematics, Ramanujan College in collaboration with Teaching Learning Center, Ramanujan College, University of Delhi during March16-30, 2021.
2. Delivered pre-recorded lectures titled “ **TORA Software**” and “**MATLAB: An Introduction**” at “**Refresher Course in Mathematics**” organized by Department of Mathematics, Ramanujan College

in collaboration with Teaching Learning Center, Ramanujan College, University of Delhi during August 13 – September 14, 2021.

#### **Co-ordinator/Member of Conference/Workshop/FDP**

1. Member of Organizing Committee of “**Faculty Development Program**” at Bhaskaracharya College of Applied Sciences, University of Delhi on December 16-22, 2017.
2. Member of organizing committee of “**Online Refresher Course in Mathematics**” organized by Teaching Learning Center, Ramanujan College, University of Delhi during March 16-30, 2021.
3. Member of organizing committee of online workshop on “**Recent Trend in Domination and Graph Labelling (RTDGL 2021)**” organized by Department of Mathematics, Ramanujan College, University of Delhi in collaboration with Academy of Discrete mathematics and Applications (ADMA) on May 27-31, 2021.
4. Member of organizing committee of “**Refresher Course in Mathematics**” organized by Teaching Learning Center, Ramanujan College, University of Delhi in collaboration with Department of Mathematics, Ramanujan College, University of Delhi during August 13-September 14, 2021.
5. Member of organizing committee of “**International Conference on Graphs, Networks and Combinatorics**” organized by Department of Mathematics, Ramanujan College, University of Delhi during June 10-12, 2023.

#### **Participation in Short-Term Training Programme**

1. Successfully completed two week faculty development program on “**MANAGING ONLINE CLASSES and CO-CREATING MOOCS**” organized by Teaching Learning Center, Ramanujan College, University of Delhi, from April 20 - May 06, 2020.
2. Successfully completed the three days national level online course on “**Operations Research**” organized by Virudhunagar Hindu Nadars Senthikumara Nadar College, Tamilnadu, from May 18–20, 2020.
3. Successfully completed online Quiz on “**COVID-19: Knowledge, Attitude and Practice**” organized by Sardar Vallabh Bhai Patel College, Bhadua, Kaimur, Bihar in May 22, 2020.
4. Successfully completed two week online workshop on “**Comprehensive e-Learning to e-Training guide for Administrative Work**” organized by Teaching Learning Center, Ramanujan College, University of Delhi, from May 25 - June 02, 2020.
5. Successfully completed four week Induction/Orientation program for “**Faculty in Universities/Colleges/Institutes of Higher Education**” organized by Teaching Learning Center, Ramanujan College, University of Delhi, from June 4 - July 01, 2020.

6. Successfully completed one week faculty development program on “**Open Source Tools for Research**” organized by Teaching Learning Center, Ramanujan College, University of Delhi, from June 8 – June 14, 2020.
7. Successfully completed two week faculty development program on “**ADVANCED CONCEPTS FOR DEVELOPING MOOCS**” organized by Teaching Learning Center, Ramanujan College, University of Delhi, from July 2 – July 17, 2020.
8. Successfully completed two week faculty development program on “**Advanced Optimization Techniques and hands-on MATLAB/SCILAB**” jointly organized by Electronics and ICT Academies, from July 13 - 24, 2020.

#### ***Paper Presentation in International Conferences/Seminars***

1. Presented a research paper on “**On Solvability of Some Special Groups**” in “**International Conference on Applicable Analysis**” in “International Conference on Applicable Analysis, ICAA-2017” organized by Department of Mathematics, Shaheed Bhagat Singh College, University of Delhi, in February 8-11, 2017.
2. Presentation a research paper on “**Optimal Investment Decision Model Based On Simplex Algorithm With Variable Optimal Value Evaluation Process**” in “International Conference on Applied and Computational Mathematics-2018” organized by Indian Institute of Technology Kharagpur, India, in November 23-25, 2018.
3. Presented a research paper on “**Electrical Power System Transmission Quality and Power Supplier Micro Grid Control Functional Reliability**” in “9<sup>th</sup> International Conference on Quality, Reliability, Infocom Technology & Business Operations” organized by Department of Operational Research, University of Delhi, Society for Reliability Engineering, Quality and Operations Management (SREQOM), in December 27-29, 2018.
4. Presented a research article titled “**Comparative Study of Linear Programming, Integer Programming and Minimal Spanning Tree for Network Model**” in the 1<sup>st</sup> International Conference on Mathematical, Engineering and Management Sciences organized by The DQM Research Center, Prijedor, Serbia during June 25-26, 2022.
5. Presented a research article titled “**A MATLAB Programming for Finding Job Sequencing Problem Solution**” in the International Conference on Graphs, Networks and Combinatorics organized by Department of Mathematics, Ramanujan College, University of Delhi during June 10-12, 2023.

#### ***Paper Presentation in National Conferences/Seminars***

1. Presented a research paper on “**A MATLAB Programming Applied in Gradient Search Method to Solve Quadratic Optimization Problem**” in “National Conference on Emerging Trends in Information Technology (NCETIT-2019)” organized by Department of Computer Science, Kalindi College, University of Delhi, in August 1-2, 2019.
2. Presented a research article titled “**Six National Currency Exchange Value Actuation and Optimal Decision Synthesize**” in the Contributed session at the “Sixth workshop and conference on Statistical Methods in Finance, 2021” jointly organized by the Chennai Mathematical Institute, North Dakota State University and Indian Statistical Institute from 27th June, 2021 to 1st July, 2021.

#### ***Participation in International Conferences/Seminars/Workshops***

1. Attended International conference on “**The Legacy of Shrinivasa Ramanujan**” organized by University of Delhi on December 17-22, 2012.
2. Attended RMS-UGTE workshop on “**Finite Group and Applications**” organized by Deshbandhu College, University of Delhi on February 7-9, 2014.
3. Participated in International conference on “**Algebra, Geometry, Analysis and Their Application (ICAGAA-2014)**” organized by Department of Mathematics, Jamia Millia, New Delhi on November 27-29, 2014.
4. Participated in panel discussion on “**Foreign Investment and Merger Control A Geoeconomic Framework**” organized by Asia Legal Foundation on November 21, 2017.
5. Attended International Conference on “**Current Trends in Theoretical and Computational Differential Equations with Applications**” organized by Department of Mathematics, South Asian University, New Delhi on December 1-5, 2017.
6. Attended International conference on “**Sustainable Development: Modeling and Optimization (ICS DMO)**” organized by Operational Research Society of India, Meerut Chapter on February 16 - 17, 2021.
7. Participated and contributed a paper titled “**A Study of Mathematical Backgrounds Behind The Digitally Communicative Switches Design**” in 5<sup>th</sup> International Conference on Information and Communication Technology for Intelligent System (ICTIS 2021) on April 23-24, 2021

#### ***Participation in National Conferences/Seminars/Workshops***

1. Attended Faculty Development Program on “**Research Methodology**” organized by Internal quality Assurance Cell, Bhaskaracharya College of Applied Sciences, University of Delhi on December 16-22, 2017.
2. Attended “**The 33<sup>rd</sup> Annual Conference of The Ramanujan Mathematical Society**” organized by Department of Mathematics, University of Delhi on June 1-3, 2018.
3. Participated in a workshop on “Data Science with R Language” organized by Bhaskaracharya College of Applied Sciences, University of Delhi on February 2, 2019.
4. Participated in a webinar on “**Revisiting Nationalism in Contemporary Milie**” organized by Sangyartham Research Foundation on April 24, 2020.
5. Participated in a national webinar on “**COVID-19: Challenges to Administration and Efficacy of The Epidemic diseases (Amendment) Ordinance 2020**” organized by Sangyartham Research Foundation on May 03, 2020.
6. Attended a webinar on “**Understanding The Corona Virus: Some Good News**” organized by Department of Mathematics, Kalindi College, University of Delhi on May 05, 2020.
7. Participated in a webinar on “**वैश्विक परिदृश्य में भारतीय संस्कृष्वत**” organized by Teaching Learning Center, Ramanujan College, University of Delhi on May 21, 2020.
8. Participated in a national webinar on “**Research Methodology: An Overview**”, Organized by Atma Ram Sanatan Dharma College, University of Delhi on May 12, 2020.
9. Participated in a webinar on “**Constructive Living and Education in the times of Corona Crisis**” organized by Shivaji College, University of Delhi on May 13, 2020.
10. Participated in a national webinar on “**Courts, Constitution and Current Legal Problem**” Jointly organized by Campus Law Center, University of Delhi and Sangyartham Research Foundation from July 31 – August 01, 2020.
11. Participated in the “**35<sup>th</sup> Annual Conference of Ramanujan Mathematical Society**” organized by Department of Mathematics, Central University of Rajasthan on December 28-30, 2020.

### **Programming & Computing Skills**

Languages : C++

Platforms : Windows

Well conversant with Microsoft office and La TeX.

**Editor/Referee/Reviewer**

**Membership of Academic Bodies and Societies**

**Research Collaborations**

**Administrative Responsibilities**

1. Member of “**Magazine Committee**”, “**Bhaskaracharya Cell**” and “Eco Club” at Bhaskaracharya College of Applied Sciences, University of Delhi, in 2016-17.
2. Member of “**Carrier counseling Cell**”, “**Student Advisory and PR Committee**”, “**Vivekananda Vichar Manch**” and “**Literary Club**” at Bhaskaracharya College of Applied Sciences, University of Delhi, in 2017-18.
3. Convener of “**Bhaskaracharya Cell**” at Bhaskaracharya College of Applied Sciences, University of Delhi, in 2017-19.
4. Member of “**Automation & Digitization Committee**”, “**Gender Sensitization Committee/Faculty representatives in Internal Complain Committee**” and “**Prospectus & Annual Report Committee**” at Bhaskaracharya College of Applied Sciences, University of Delhi, in 2018-19.
5. Organize “**7 session seminar**” at Bhaskaracharya College of Applied Sciences on “**Vedic and Value based knowledge**” on January 28- February 2, 2019.

**Name of the Facult**