# Sri Venkateswara College

**(University of Delhi)**
**Benito Juarez Road, New Delhi - 110021**
**(Phone No. - 011-2411 2196 : Email - principal@svc.ac.in)**

**Print Date : 25-11-2026**

## 1. Personal Profile



Title: **Prof.** First Name: **SWARN** Last Name: **SINGH**

Designation: **PROFESSOR** Mobile No. **----------**

Phone No. (Office) **----------** Phone No. (Residence): **----------**

Email: **ssingh@svc.ac.in** Webpage: **----------**

Facebook: **----------** Twitter: **----------**

LinkedIn: **https://www.linkedin.com/in/swarn-singh-7aa0006/** Instagram: **----------**

Youtube: **----------** Research Gate Link: **https://www.researchgate.net/profile/Swarn-Singh-3?ev=hdr_xprf**

Google Scholar Link:
**https://scholar.google.com/citations?user=H4lLjpkAAAAJ&hl=en&authuser=1&oi=ao**

Address: **----------**

## 2. Educational Qualifications

| Degree/ Certification | Institution | Year |
|---|---|---|
| B.A.(Hons.) Mathematics | Ramjas College, University of Delhi | 1994 |
| M.A. (Mathematics) | Ramjas College, University of Delhi | 1997 |
| M.Phil.(Mathematics) | Department of Mathematics, University of Delhi | 1999 |
| Ph.D.(Mathematics) | Department of Mathematics, University of Delhi | 2007 |

## 3. Career Profile & Administrative Assignments

| Category | Role/ Designation | Department/ Committee | Date From - To | Remarks |
|---|---|---|---|---|
| ADMINISTRATIVE ASSIGNMENTS | CONVENER | ADMISSIONS GRIEVANCE COMMITTEE Sri Venkateswara College | 01.Jul.2025 - Till date | |
| ADMINISTRATIVE ASSIGNMENTS | MEMBER | INTERNAL FINANCE COMMITTEE Sri Venkateswara College | 01.Jul.2024 - Till date | |

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|---|---|---|---|---|
| ADMINISTRATIVE ASSIGNMENTS | MEMBER | STAFF GRIEVANCE REDRESSAL CELL Sri Venkateswara College | 30.Apr.2024 - Till date | |

## 4. Other Profiles

| Other Profile Name/ Description |
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## 5. Research Guidance

| Year | Guide For | Title of the Dissertation/ Thesis | Scholar Name | Status |
|---|---|---|---|---|

## 6. Research Projects

| Year | Title of Project | Sponsorship Agency | Duration | Amount Sanctioned | Date of Sanction |
|---|---|---|---|---|---|

## 7. Publications

| Category | Publication Name | Title | Name of Author | Reference Link/ DOI Link | Publication (Month-Year) |
|---|---|---|---|---|---|
| JOURNAL PAPER (International) | Global Stability of novel coronavirus model using fractional derivative | Computational and Applied Mathematics | PREETY KUMARI, HARENDRA PAL SINGH and SWARN SINGH (Joint Author) | https://link.springer.com/article/10.1007/s40314-023-02413-8 | October 2023 |
| JOURNAL PAPER (International) | Cubic B-spline method for non-linear sine-Gordon equation | Computational and Applied Mathematics | SURUCHI SINGH, SWARN SINGH and ANU AGGARWAL (Corresponding Author) | https://doi.org/10.1007/s40314-022-02092-x | November 2022 |
| JOURNAL PAPER (International) | Dynamical Analysis of COVID-19 Model Incorporating Environmental Factors | Iran Journal of Science and Technology Trans A:Science | PREETY KUMARI, HARENDRA PAL SINGH and SWARN SINGH (Joint Author) | https://link.springer.com/article/10.1007/s40995-022-01372-9 | November 2022 |

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| JOURNAL PAPER (International) | A new spline technique for the time fractional diffusion-wave equation | MethodsX | SURUCHI SINGH, SWARN SINGH and ANU AGGARWAL (Corresponding Author) | https://doi.org/10.1016/j.mex.2023.102007 | January 2023 |
| JOURNAL PAPER (International) | High order compact cubic B-spline collocation method for the solution of Fisher's Equation | International Journal of Applied and Computational Mathematics | SURUCHI SINGH, SWARN SINGH and SANDEEP BHATT (Corresponding Author) | https://link.springer.com/article/10.1007/s40819-021-01157-5 | October 2021 |
| JOURNAL PAPER (International) | Modeling COVID-19 and heart disease through Caputo fractional derivative: memory trace analysis | Modeling Earth Systems and Environment /Springer | Preety Kumari, Harendra Pal Singh, Swarn Singh (Joint Author) | https://doi.org/10.1007/s40808-024-02133-w | November 2024 |
| JOURNAL PAPER (International) | Mathematical model for understanding the relationship between diabetes and novel coronavirus | Gene/Elsevier | Preety Kumari, Harendra Pal Singh, Swarn Singh (Joint Author) | https://doi.org/10.1016/j.gene.2024.148970 | January 2025 |
| JOURNAL PAPER (International) | A new patch up technique for elliptic partial differential equation with irregularities | Journal of Computational and Applied Mathematics/Elsevier | SWARN SINGH, SURUCHI SINGH and ZHILIN LI (First Author) | http://dx.doi.org/10.1016/j.cam.2021.113975 | June 2022 |
| JOURNAL PAPER (International) | A High Order Compact Scheme for a Thermal Wave Model of Bio- Heat Transfer with an Interface | Numerical Mathematics: Theory Methods and Applications/Global Science Press | SURUCHI SINGH, SWARN SINGH and ZHILIN LI (Joint Author) | https://doc.global-sci.org/uploads/Issue/NMTMA/v11n2/112-321_short.pdf?1603963242 | May 2018 |

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| JOURNAL PAPER (International) | A fourth order compact scheme for transport equation with discontinuous coefficients | Numerical Mathematics: Theory Methods and Applications | SURUCHI SINGH, KAZUFUMI ITO, SWARN SINGH and ZHILIN LI (Joint Author) | | November 2018 |

## 8. Books

| Category | Book Name | Title | Name of Author | ISSN/ ISBN Number |
|---|---|---|---|---|

## 9. Faculty Achievements

| Year | Category of Achievement | Role | National/ International etc. | Name | Date From-To |
|---|---|---|---|---|---|
| 2024 | INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED | SPEAKER | College | Lecture | 22.Oct.2024 - 22.Oct.2024 |
| 2025 | INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED | SPEAKER | College | Lecture | 29.Jan.2025 - 29.Jan.2025 |
| 2025 | INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED | RESOURCE PERSON | University | National Mathematics Day | 22.Dec.2025 - 22.Dec.2025 |
| 2026 | WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED | SPEAKER | International | International Conference on Trends in Mathematics and Computing | 16.Feb.2026 - 18.Feb.2026 |

**Prof. SWARN SINGH**