Sri Venkateswara College

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

Print Date : 13-09-2026

1. Personal Profile

Title: **Dr.** First Name: **AMIT** Last Name: **KUMAR**

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

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

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

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

LinkedIn: ---------- Instagram: ----------

Youtube: ---------- Research Gate Link: ----------

Google Scholar Link: ----------

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

2. Educational Qualifications

Degree/ Certification	Institution	Year

3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
ADMINISTRATIVE ASSIGNMENTS	MEMBER	TIME-TABLE COMMITTEE Sri Venkateswara College, University of Delhi	01.Jul.2010 - 30.Jun.2011	Worked as a member of the Departmental Timetable Committee.
ADMINISTRATIVE ASSIGNMENTS	MEMBER	INFORMATION AND COMMUNICATION TECHNOLOGY COMMITTEE Sri Venkateswara College, University of Delhi	01.Jul.2013 - 30.Jun.2014	
ADMINISTRATIVE ASSIGNMENTS	IN-CHARGE	MATHS - TRISECTRIX Sri Venkateswara College, University of Delhi	01.Jul.2014 - 30.Jun.2015	

ADMINISTRATIVE ASSIGNMENTS	IN-CHARGE	DEPARTMENT MAGAZINE Sri Venkateswara College, University of Delhi	01.Jul.2014 - 30.Jun.2015	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ADMISSIONS COMMITTEE Sri Venkateswara College, University of Delhi	01.Jul.2015 - 30.Jun.2016	Worked as a member of the Departmental Admissions Committee
ADMINISTRATIVE ASSIGNMENTS	MEMBER	TIME-TABLE COMMITTEE Sri Venkateswara College, University of Delhi	01.Jul.2015 - 30.Jun.2016	Worked as a member of the Departmental Timetable Committee
ADMINISTRATIVE ASSIGNMENTS	MEMBER	INFORMATION AND COMMUNICATION TECHNOLOGY COMMITTEE Sri Venkateswara College, University of Delhi	01.Jul.2016 - 30.Jun.2017	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	INFORMATION AND COMMUNICATION TECHNOLOGY COMMITTEE Sri Venkateswara College, University of Delhi	01.Jul.2017 - 30.Jun.2018	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	INFORMATION AND COMMUNICATION TECHNOLOGY COMMITTEE Sri Venkateswara College, University of Delhi	01.Jul.2018 - 30.Jun.2019	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ACADEMIC PLANNING COMMITTEE Sri Venkateswara College, University of Delhi	01.Jul.2018 - 30.Jun.2019	Worked as a member of the Departmental APC Committee
ADMINISTRATIVE ASSIGNMENTS	MEMBER	SPORTS COMMITTEE Sri Venkateswara College, University of Delhi	01.May.2018 - 30.Apr.2020	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ACADEMIC PLANNING COMMITTEE Sri Venkateswara College, University of Delhi	01.Jul.2020 - 30.Jun.2021	Worked as a member of the Departmental APC Committee
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PROCTORIAL COMMITTEE Sri Venkateswara College, University of Delhi	01.Oct.2021 - 30.Sep.2023	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PROCTORIAL COMMITTEE Sri Venkateswara College Unoversity of Delhi	01.Oct.2023 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	ATTENDANCE SCREENING COMMITTEE Sri Venkateswara College	01.Oct.2023 - 30.Jun.2025	
ADMINISTRATIVE ASSIGNMENTS	IN-CHARGE	MATHS - TRISECTRIX Sri Venkateswara College, University of Delhi	01.Jul.2024 - 30.Jun.2025	Worked as an Association-In-Charge in the Department of Mathematics.
ADMINISTRATIVE ASSIGNMENTS	CONVENER	DEPARTMENT OF MATHEMATICS Sri Venkateswara College, University of Delhi	01.Jul.2024 - 30.Jun.2025	I was the Disciplinary Committee convener for the academic year 2024-2025 of the Department activities.

ADMINISTRATIVE ASSIGNMENTS	MEMBER	DEPARTMENT OF MATHEMATICS Sri Venkateswara College, University of Delhi	01.Jul.2024 - 30.Jun.2025	I was the Examination Committee member for the academic year 2024-2025 of the Department activities.

4. Other Profiles

Other Profile Name/ Description

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
2013	Mathematical Modeling and Simulation of Neural Network Based Controllers for Robots	Delhi University	1 year	600000	26.Nov.2013

7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link
JOURNAL PAPER (National)	Control Of An Autonomous Industrial Fire Fighting Mobile Robot	DU Journal of Undergraduate Research and Innovation	H. P. Singh, Akanshu Mahajan, N. Sukavanam, Veena Budhraja, Swarn Singh, Amit Kumar and Anadi Vashisht (Joint Author)	https://www.researchgate.net/profile/Akanshu-Mahajan/publication/281610305_Control_of_an_aut of-an-autonomous-industrial-fire-fighting-mobile-robo
JOURNAL PAPER (International)	Group invariant solutions of (2+1)-dimensional rdDym equation using optimal system of Lie subalgebra	Physica Scripta	Sachin Kumar, Abdul-Majid Wazwaz, Dharmendra Kumar and Amit Kumar (Joint Author)	https://doi.org/10.1088/1402-4896/ab2d65
JOURNAL PAPER (International)	Lie symmetry reductions and group invariant solutions of (2+1)-dimensional modified Veronese web equation	Nonlinear Dynamics	Sachin Kumar and Amit Kumar (Joint Author)	https://doi.org/10.1007/s11071-019-05294-x

JOURNAL PAPER (International)	Lie symmetry analysis and generalized invariant solutions of (2+1)-dimensional dispersive long wave (DLW) equations	Physica Scripta	Sachin Kumar, Amit Kumar and Harsha Kharbanda1 (Joint Author)	https://doi.org/10.1088/1402-4896/ab7f48
JOURNAL PAPER (International)	Dynamical structures of solitons and some new types of exact solutions for the (2+1)-dimensional DJKM equation using Lie symmetry analysis	Modern Physics Letters B	Sachin Kumar and Amit Kumar (Joint Author)	DOI: 10.1142/S0217984921500159
JOURNAL PAPER (International)	Exploring soliton patterns and dynamical analysis of the solitary wave form solutions of the (3+ 1)-dimensional Wazwaz–Benjamin–Bona–Mahony equation	Modern Physics Letters B	Dharmendra Kumar, Ashwani Saharan, Amit Kumar (Corresponding Author)	10.1142/S0217984925501027
JOURNAL PAPER (International)	• New exact solitary wave solutions of the strain wave equation in microstructured solids via the generalized exponential rational function method.	The European Physical Journal Plus	Sachin Kumar, Amit kumar, A M Wazwaz (Joint Author)	https://doi.org/10.1140/epjp/s13360-020-00883-xhttp
JOURNAL PAPER (International)	• Lie symmetries, optimal system and group-invariant solutions of the (3+1)-dimensional generalized KP equation.	Chinese Journal of Physics	Sachin Kumar, WX Ma, Amit Kumar (Joint Author)	https://doi.org/10.1016/j.cjph.2020.11.013
JOURNAL PAPER (International)	• Lie symmetry analysis for obtaining the abundant exact solutions, optimal system and dynamics of solitons for a higher-dimensional Fokas equation.	Chaos, Solitons & Fractals.	Sachin Kumar, Dharmendra Kumar, Amit kumar, A M Wazwa (Joint Author)	https://doi.org/10.1016/j.chaos.2020.110507
JOURNAL PAPER (International)	Some more closed-form invariant solutions and dynamical behavior of multiple solitons for the (2+1)-dimensional rdDym equation using the Lie symmetry approach.	Results and Physics	Sachin Kumar, H Almusawa, Amit Kumar (Joint Author)	https://doi.org/10.1016/j.rinp.2021.104201
JOURNAL PAPER (International)	Abundant exact closed-form solutions and solitonic structure for the double chain Deoxyribouncleic acid (DNA) model.	Brazilian Journal of Physics.	Sachin Kumar, Amit Kumar, Harsha Kharbanda (Joint Author)	https://doi.org/10.1007/s13538-021-00913-8
JOURNAL PAPER (International)	A (2+1)-dimensional generalized Hirota-Satsuma-Ito equations: Lie symmetry analysis, invariant solutions and dynamics of soliton solutions.	Results in Physics	Sachin Kumar, KS Nisar, Amit Kumar (Joint Author)	https://doi.org/10.1016/j.rinp.2021.104621

JOURNAL PAPER (International)	Abundant closed-form wave solutions and dynamical structures of soliton solutions to the (3+1)-dimensional BLMP equation in mathematical physics.	Journal of Ocean Engineering and Science.	Sachin Kumar and Amit Kumar (Joint Author)	https://doi.org/10.1016/j.joes.2021.08.001
JOURNAL PAPER (International)	A study of Bogoyavlenskii's (2+1)-dimensional breaking soliton equation: Lie symmetry, dynamical behaviors and closed-form solutions.	Results in Physics	Sachin Kumar, H Almusawa, S K Dhiman, MS Osman, Amit Kumar (Joint Author)	https://doi.org/10.1016/j.rinp.2021.104793

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
2025	REFRESHER COURSE ATTENDED	ASSISTANT PROFESSOR	University	Two Week Interdisciplinary Refresher Course On Basics of Research Methodology	08.Mar.2025 - 22.Mar.2025
2024	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Faculty Development Program in Application of AI-ML in Emerging Field	29.Jul.2024 - 02.Aug.2024
2024	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	PARTICIPANT	International	International Workshop on Cutting-Edge Innovations in soft Computing Communication and Artificial Intelligence	10.Sep.2024 - 14.Sep.2024

Dr. AMIT KUMAR