SLC (University of Delhi)
Shyam Lal College

NAAC A++

Faculty Profile

Title	Dr.	**First Name**	MUKESH	**Last Name**	KUMAR	**Photograph**	
Designation	Assistant Professor						
Department	Mathematics						
Address	Department of Mathematics, Shyam Lal College, University of Delhi						
Email	mkumarmath@shyamlal.du.ac.in						
Web-Page							

Educational Qualification

Degree	Subject	University/ College/Institution	Year
Ph.D	Mathematics	University of Delhi	2023
M.Sc.	Mathematics	Hansraj College, University of Delhi	2015
B.Sc. (H)	Mathematics	ARSD College, University of Delhi	2013
UGC-CSIR- NET (JRF)	Mathematics		2016

Experience

	Name of the University/College/ Institute/Organisation	Designation & Status (Permanent/Ad-hoc)	From	To	Effective time period
Teaching	Shyam Lal College, University of Delhi	Permanent	27-03-23	Till Now	
	Shivaji College, University of Delhi	Ad-hoc	03-08-17	26-03-23	5 years and 7 months
Research/ Corporate					
Consultancy					

Teaching-Learning Process (Academic Year 2022-23 Onwards)

Are You using ICT (LMS, E-Resources)?	If yes, please give the details below:	
	Name	Total Numbers
E-Resources		
Techniques and Platforms		

Career Advancement and Contribution to College Corporate Life (2022-23 Onwards)

	Name of the Committee/ Centre/ Society/ Cell	Designation	From	To
Convenor/Member of Committees	NSS	Member	April 2022	March 2023
	NSS	Member	March 2023	May 2024
	Discipline Committee	Member		
	WDC	Member		
	Fine Arts (Performing)	Member	March 2023	May 2024
	Student Union Advisory	Member	March 2023	May 2024
Any Other Administrative Responsibility (Bursar, Coordinator, Superintendent etc.)				

Areas of Interest/Specialisation

S.No.	Areas of Interest/ Specialisation
1	Abstract Algebra
2	Real Analysis
3	Dynamics

Subjects Taught

S.No.	Subject	S.No.	Subject
1	Algebra	5	Multivariate Calculus
2	Real Analysis	6	Elementary Linear Algebra
3	Latex and HTML	7	Differential Equations
4	Calculus and Matrices		

Publications: Citation Index in Scopus/Web of Science or Pub Med/ Indian Citation Index

Title of Paper	Name of the Author	Title of the Journal	Year of Publication	Citation Index	h-Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self-citations	Impact factor, if any
Resonantcurve of geosynchronous satellite including effect of earth's equatorial ellipticity and resistive force using perturbations technique	Mukesh Kumar	New Astronomy	2021					2.09
Analysis of resonant curves and phase portrait in the earthmoon system by using its unperturbed	Mukesh Kumar	New Astronomy	2021					2.09

solution and earth's equatorial ellipticity								
Analysis of resonant curve in the earth-moon system under the effect of resistive force and earth's equatorial ellipticity	Mukesh Kumar	Applications and Applied Mathematics: An International Journal (AAM)	2022					
Stability analysis of lagrangian points of geo-synchronous satellite including the resistive force and earth's equatorial ellipticity	Mukesh Kumar	New Astronomy	2022					2.09
Resonant curve due to perturbations in geo-synchronous satellite including the earth's equatorial ellipticity and resistive force	Mukesh Kumar	Astronomy Reports	2022					1
Analysis of resonant curve and phase portrait due to earth's equatorial ellipticity in the earth-moon system using perturbation technique	Mukesh Kumar	Journal of Dynamical System and Geometric Theories	2022					
Resonant Curve Due to Perturbations of Geo-Synchronous Satellite including Effect	Mukesh Kumar	Applications and Applied Mathematics: An Internatio	2023					

of Earth's Equatorial Ellipticity		nal Journal (AAM)						
Analysis of Resonant Curve in a Synchronous Satellite under the Gravitational Effect of the Sun, the Moon, and the Earth Including Its Oblateness using Poincare Section	Mukesh Kumar	Astronomy Reports	2023					1
Analysis of the Effect of Earth's Equatorial Ellipticity on the Existence and Stability of the Lagrangian Points in the Earth–Moon–Sun System	Mukesh Kumar	Astronomy Reports	2024					1

Books and Chapters in Edited Volumes/Books published, and papers in National /International conference Proceeding per teacher during the Year

Title of Book/Paper/ Book Chapter	Publisher	National/International	Year

Conference/ Seminar/ Symposium/ Workshop/ Presentation

Sr. No.	National/ International/state	Topic	Presentation/Attended /Resource Person	Date	Duration	
1	International	International Conference on Advances in Pure and Applied Mathematics	Organizing Member	Feb, 8-10, 2024	3 days	
2	International	International Conference on Advances in Pure and Applied Mathematics	Paper Presentation	Feb, 8-10, 2024	3 days	*Conferences*
3	International	International Conference on Mathematical Sciences	Paper Presentation	17th to 19th Januar	3 days	

		and Its Applications to Artificial Intelligence		y, 2024		
4	International	Analysis and its Applications	Paper Presentation	Feb, 27-28 2023	2 Days	
5	International	International Conference on Frontiers in Industrial and AppliedMathematics	Paper Presentation	Dec, 21 2021	2 Days	
6	National	National Conference on Pure & Applied Mathematics	Paper Presentation	March, 7 2021	2 Days	
7	National	NCERT, Delhi	Resource Person	Aug, 7-11, 2023	5 days	*Workshops*
8	National	Model Framework of Mathematics & Statistics Curriculum: NEP Perspective	Resource Person	Febru ary 2-3, 2024	2 Days	

Research Projects/ Innovation Projects (Major Grants/Research Collaboration)

S.No.	Title of the Project	Funding Agency	Status/Output

Research Guidance (Ph. D./ M. Phil.)

	No. of Ph.D. Students	No. of M.Phil. Students
Awarded		
Submitted		
Under Progress		

Fellowships/Awards /Distinctions/Recognitions

Year of Award	Name of the Fellowship/Award/ Distinction/ Recognition	Designation	Name of the Academic Bodies /Association	International /National/ State

Incentive to the teachers who receive recognition/awards

State	National	International

Association with the Professional Bodies

	Name of the Organisation	Year
Membership	Astronomical Society of India	Life Member
Any Other		

Development of E-Learning Delivery Process/Material

S.No.	Title of the Module	Recognized by/Submitted at/ Delivered at any government setup

Refresher/ Orientation Programme/ FDP / Other Specialised Courses				
S.No.	Topic	Name of the Organiser	Place	Duration and Year
1	Faculty Induction/Orientation Programme	Ramanujan College	Online	4 weeks (23 April – 22 May, 2023)
2	Refresher Course	Ramanujan College	Online	2 weeks (June, 6-20, 2023)
3	FDP (Biomathematics)	Shivaji College	Shivaji College	Aug, 1- 7 2019

Declaration

I do hereby solemnly declare that the information given and the statements made by me are correct and true to the best of my knowledge.

Signature with Full Name