



## Faculty Details Proforma



Title	Mrs.	First Name	Pooja	Last Name	Khoda	Photograph
Designation	Assistant Professor					
Address	Department of Mathematics, Shaheed Bhagat Singh College, University of Delhi, New Delhi-110017.					
Date of Birth	01-07-1996					
Phone No Office						
Mobile						
Email	<a href="mailto:Poojakhoda@sbs.du.ac.in">Poojakhoda@sbs.du.ac.in</a> ,					
Web-Page						
<b>Educational Qualifications</b>						
Degree	Institution				Year	
Ph.D. (Mathematics)	University of Delhi				Pursuing	
M.Phil. (Mathematics)	University of Delhi				2022	
M.Sc.(Mathematics)	University of Rajasthan				2018	
B.Sc. (Mathematics)	University of Rajasthan				2016	
<b>Career Profile</b>						
<p><b>CAREER OBJECTIVE:</b> To work up to the optimum level for the betterment of the institution and nation. To make a mark as a distinguished professional in the institution.</p> <p><b>Work Experience:</b></p> <ul style="list-style-type: none"> <li>Assistant Professor (Permanent): Shaheed Bhagat Singh College, University of Delhi (April 2023 to till the date).</li> <li>Assistant Professor (Ad-hoc): Bharati College, University of Delhi (July 2019 to April 2023).</li> </ul>						
<b>Areas of Interest / Specialization</b>						
<ul style="list-style-type: none"> <li>Nonlinear Dynamical Systems, Mathematical Modeling, Disease Modeling</li> </ul>						
<b>Papers Taught</b>						
<ul style="list-style-type: none"> <li>Calculus</li> </ul>						

- Differential Equations
- Ring Theory and Linear Algebra-I
- Computer Algebra Systems and Related Software
- Group Theory-I
- Group Theory-II
- Ring Theory and Linear Algebra-II
- Complex Analysis
- LaTeX and HTML
- IT Skills and Data Analysis-I
- Mathematical Python
- Group Theory
- Vedic Mathematics-I
- Multivariate Calculus
- Financial Modeling with Excel

### Research Guidance

#### PhD scholars

Under Supervision	Submitted	Awarded

#### M.Phil Scholars

Under Supervision	Submitted	Awarded

#### M.A. Dissertations

Under Supervision	Awarded

### Publications Profile

Books			
Title	ISBN/Publisher/Link	Indexed Scopus etc if any	Year

Research Publications							
Article Name	Publication Type (UGC Care/ Scopus/ Web of science etc)	Journal Name	ISSN No	Volume	Year	URL	DOI
Effectiv strategies toward controlling tuberculosis: optimal control and cost-effectiveness analysis	SCIE/ Scopus	The European Physics Journal Plus		140	2025	<a href="https://link.springer.com/article/10.1140/epjp/s1140/epjp/s13360-025-05978-x">https://link.springer.com/article/10.1140/epjp/s1140/epjp/s13360-025-05978-x</a>	10.1140/epjp/s13360-025-05978-x
Publications other than journal articles							
Title of Publication	Type of Publication	Publisher	Role in Publication	ISBN Number	Year	URL	Level

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#### Conference/ workshop Organized

- **Organized** a Webinar on “**Vedic Mathematics**” on 03 February, 2021 at **Bharati College**, University of Delhi.

#### Awards and Distinctions

- **CSIR-UGC, NET-JRF**

#### Association with Professional Bodies

#### Other Activities

- **Attended** a Webinar on “**Getting Started with NLP for Enterprise Application**” on 19<sup>th</sup> February 2022 organized by **Supercomputer Facility at Computer Engineering Department of Government Engineering College**, Rajkot.
- **Participated** in a “**Webinar on 34th Webinar of the Webinar Series of Communication Today**” at **Netaji Subhash Chandra Bose Jaipur** on 6th February, 2022.
- **Participated** in a Webinar on “**Career Talk 2022-Resume, Job and Interview**” on 5th February 2022 organized by **BSUM**.
- **Attended** a Webinar on “**National Intellectual Property awareness mission**” on 19<sup>th</sup> January 2022 Organized by **NIPAM**.
- **Participated** in a Webinar entitled “**Brain Training with Maths Exercise**” organized by **Bharati College** on May 24, 2020.
- **Attended** an International Webinar on “**Origin of Universe: Scientific and Vedic Perspectives**” organized by **QUBIT** on 12<sup>th</sup> June 2020.
- **Participated** in an International Webinar on “**Some Applications of Mathematics to Analyze and Solve Problems of Real Life**” organized by **Bharati College** on 29<sup>th</sup> May

2020.

- **Participated** in a Webinar on “**Effective Pertaining During the Lockdown: Addressing Challenges**” organized by **Bharati College** on 21<sup>st</sup> April 2020.
- **Participated** in a Five Days Workshop on “**Scientific Research Using Latex and Descriptive Data Analysis through R/Python**” organized by **Rajiv Gandhi South Campus, BHU** during 31<sup>st</sup> Jan. 2022 to 04<sup>th</sup> Feb. 2022.
- **Participated** in a Five Days Workshop and National Faculty Development Program on “**Research Methodology and ICT based Teaching and Learning Tools**” Organized by **Hindustan College of Arts and Science, Coimbatore, Tamilnadu** during 16<sup>th</sup> to 20<sup>th</sup> June 2020.
- **Participated** in an one week Faculty Development Programme on “**Research Methodology**” organized by **Indian Teacher Education Community and Sw. Sunderlal Shivare Degree College, Markov Maudaha Hamirpur, UP** during 12<sup>th</sup> to 18<sup>th</sup> July 2020.
- **Participated in IWM Conference** organized by **Banashthali Vidyapith, Rajasthan** during 28-30<sup>th</sup> January 2022.
- **Presented** a Research Paper entitled “**An analysis of mathematical model of Tuberculosis disease by using Fractional Derivatives**” in an International Conference on Mitigating Contemporary Environmental issues by Sustainable Approaches at **Acharya Narendra Dev College, University of Delhi** during 22-28<sup>th</sup> February 2022.
- **Attended** a 4-Week Faculty Induction/Orientation Programme organized by **Teaching Learning Centre Ramanujan College, University of Delhi in collaboration with ARMY INSTITUTE OF EDUCATION** from 23 May – 21 June 2023.
- **Participated** in one week online National Workshop entitled “**Mathematical Modelling with Simulation in Applied Sciences**” organized by the **Department of Mathematics, Central University of Haryana, during 22-26 May 2023.**
- **Attended** a two-week Refresher course organized by **Teaching Learning Centre Ramanujan College, University of Delhi in collaboration with Department of Mathematics Sri Jayachamarajendra College of Engineering (SJCE) JSS Science and Technology University (JSS S&TU), Mysuru** during 01 - 14 September, 2023.
- **Participated** in an International Conference on “**Resilient Approaches for New World Order & Viksit Bharat**” on September 25, 2023, at at Dr. Ambedkar International Centre, New Delhi, India.
- **Participated** in one week online National Workshop entitled “**Mathematical Modelling and Simulation**” during 22-26 May 2023 organized by the **Department of Mathematics, Sri Guru Nanak Dev Khalsa College, University of Delhi, New Delhi, India.**
- **Participated** in one day Workshop entitled “**Financial Modeling with Excel**” on February 17<sup>th</sup>, 2024 organized by the **Department of Commerce, Sri Aurobindo College, University of Delhi, New Delhi, India.**
- **Attended** a 2-Week “**NEP 2020 Orientation & Sensitization Programme**” under the Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by **MMTTC, Jamia Millia Islamia, New Delhi** from 04<sup>th</sup> March to 14<sup>th</sup> March 2024.
- **Attended** a one day “**Faculty Induction Programme NEP 2020: Pedagogical**

**Imperative of Higher Education”** organized by **University of Delhi** on December 01, 2023.

- **Presented a research paper** entitled “**Controlling Strategies and Cost-Effective Analysis for Tuberculosis**” in an 18th International Online Conference MSAST December (21-23,2024) With Workshop on Data Science: Accelerate Your Career, Organized by the Institute for Mathematics, Bioinformatics, Information Technology, and Computer Science (IMBIC).
- **Attended** five days online faculty development programme on LaTeX organized by Department of applied sciences, Meerut institute of Engineering and Technology, Meerut held on 9<sup>th</sup>, 23<sup>rd</sup>, 30<sup>th</sup> November and 7<sup>th</sup>, 14<sup>th</sup> December 2024.