

<b>Name:</b> <b>DR DHILSHATH S</b>	<b>Photo</b> 			
<b>Designation:</b>	<b>ASSISTANT PROFESSOR</b>			
<b>Qualification:</b>	M.Sc , Ph. D (MATHEMATICS)			
<b>Area of specialization:</b>	MATHEMATICS			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	<b>8 Years ( Online Tutor)</b>		<b>8 Years ( Online Tutor)</b> <b>1 year 6 months ( Assistant Professor)</b>	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	<b>5</b>		<b>3</b>	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
<b>Professional Body Membership</b>	IEEE member ( Membership No - 101641283)			
<b>Staff Achievements</b>				

**Educational Qualifications:**

<b>Category</b>	<b>Name of the Degree</b>	<b>Specialization</b>	<b>Year of Passing</b>	<b>Name of the University</b>	<b>% of Marks / Grades obtained</b>	<b>Class obtained</b>
UG	B.Sc.	Mathematics	2006	Madurai Kamaraj University	91 %	FIRST
PG	M.Sc.	Pure Mathematics	2008	Ramanujan Institute for Advanced Study in Mathematics, University of Madras	78.46 %	FIRST
PhD		Mathematics	2025	Ramanujan Institute for Advanced Study in Mathematics, University of Madras		

**Academic Experience:**

<b>Name of the College</b>	<b>Designation</b>	<b>Joining Date</b>	<b>Relieving Date</b>	<b>Experience</b>		
				<b>Year s</b>	<b>Month s</b>	<b>Days</b>
AMET University	Assistant Professor	08.01.2025	06.08.2025	0	7 months	

**Anna University Research Supervisor Ref no:**

**Workshops/Seminars attended:**

- **National Seminar on Application of Differential Equations: Neural Network and Fluid Dynamics, AMET UNIVERSITY, 15.04.2025**
- Advanced Instructional School (AIS) on Representation Theory at Chennai Mathematical Institute, June 20 - July 9, 2022
- National Centre for Mathematics sponsored one-week training program on Combinatorial Models in Representation Theory, November 4-16, 2019
- Mathematics Training and Talent Search Programme (level-II), May 14-June 9, 2007.
- First Meru Annual Combinatorics Conference - May 29-31, 2023
- 25th Ramanujan Symposium – National Conference on Nonlinear Fractional Differential Equations - March 9-11, 2022
- 23rd Ramanujan Symposium National Conference on Graph Theory and its Applications - March 4-6, 2020
- Advanced Instructional School (AIS) on Representation Theory at Chennai Mathematical Institute, June 20 - July 9, 2022
- Seminar on Counting Subspaces in Relation to the Linear Operator by Amritanshu Prasad - October 5, 2023
- One-day Colloquium at Ramanujan Institute for Advanced Study in Mathematics, University of Madras - March 23, 2022
- Seminars on Importance of Mathematics and its Applications at Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai - December 22, 2022
- Webinar on A Weighted Adjacency Matrix associated with projective geometry at IMSc Chennai - October 4, 2022
- Webinar on Multiplicity of trivial and sign representations of  $S_n$  in hook-shaped representation of  $GL(n)$  by Sridhar P. Narayanan
- Webinar on Graphs and Commutative Rings Organised by the Department of Mathematics, Presidency College, Chennai - June 10, 2020

**FDP/STTP Attended:**

- NPTEL -AICTE Faculty Development Program in Matrix Analysis with Applications with a consolidated score of 78%
- Five days International Faculty Development Program on Machine Learning and Dynamical Systems, Organized by Department of Mathematics, AMET University, Chennai (12.05.2025 - 16.05.2025)
- Faculty Development Program on Advances in Non linear Dynamics and Applications in Engineering, Organized by Department of Mathematics, SRM Institute of Science and Technology, Ramapuram, Chennai - 600 089, from 21st to 28th April 2025.

**Symposium Attended: Nil**

**Conference Attended:**

- **International Conference on Recent Strategies in Mathematics and Statistics (ICRSMS-2022)** held during May 19-21, 2022, organised by the Department of Mathematics, Stella Maris College in collaboration with the department of Mathematics, Indian Institute of Technology Madras.
- **International Conference on Mathematical Science and its Recent Advancements (ICMSRA-2022)** held during May 5-7, 2022, organised by the Department of Mathematics, Rathinam College of Arts and Science, Coimbatore.
- **International Conference on Mathematical Challenges and Novel Applications** held on 21<sup>st</sup> April, 2025, organized by the Department of Mathematics, AMET University, Chennai.
- **Third International conference on Innovative in Science and Humanities** held during 19 - 20 August 2025, Conducted by Department of Science and Humaities, Saveetha Engineering College, Chennai, India.

**Completed / Ongoing Projects:****Patent:****Journal Publications:**

- V. Karthick, Jayasimman and S. Dhilshath, Quantum Graph-Based Differential Models with Fractional Calculus and Topological Data Analysis for Dynamic Characterization of Protein-Protein Interaction, Communicated to the Journal
- Tamilselvi and S. Dhilshath, Walled Klein-4 Brauer Algebras, Journal of Algebra Combinatorics Discrete Structures and Applications, 10(1)(2022), 45-59. <https://jacodesmath.com/index.php/jacodesmath/article/view/245>
- A. Tamilselvi and S. Dhilshath, Harmony of Walled Klein-4 Brauer Diagrams and Klein-4 Vacillating Tableaux, Indian Journal of Science and Technology, 16(48) (2023), 4734-4742. <https://doi.org/10.17485/IJST/v16i48.2801>
- A. Tamilselvi and S. Dhilshath, Utilizing Pair of Semi-Standard 4-Young Tableaux for Encryption and Decryption in Cryptographic Applications, Communicated to the Journal.
- A. Tamilselvi and S. Dhilshath, Structural Analysis of Walled Generalised Klein-4 Permutations, Communicated to the Journal.
- A. Tamilselvi and S. Dhilshath, Unveiling Algebraic Symmetries: Knuth and Dual Knuth Relations in the Walled Klein-4 Brauer Algebra, Communicated to the Journal.

**Books / Book Chapters:**

**Awards:**

**Startup:**

**Webinar:**

**Resource Person:**

- Presented a seminar at Institute of Mathematical Sciences, Chennai titled “Combinatorial Structures and Correspondence in Walled Klein-4 Brauer Algebra” on August 2, 2024.

**Online Courses:**

- NPTEL -AICTE Course in Matrix Analysis with Applications with a consolidated score of 78%