Name: Dr. A. YASMIN		
Designation:	**ASSISTANT PROFESSOR**	
Qualification:	M.Sc., Ph.D.,	
Area of specialization:	CRYPTOGRAPHY, AUTOMATA THEORY	
Experience:	**Industrial Experience**	**Teaching Experience**
	NIL	**3 Months**
Number of workshops / FDP attended:	**Number of Workshops**	**Number of FDPs**
	6	**2**

Publications:	Conference		Journal	
	National	**International**	**National**	**International**
	NIL	**2**	**NIL**	**8**

Professional Body Membership	IEEE Membership
Staff Achievements	NIL

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.	Mathematics	2019	SRM Institute of Science and Technology	8.4/10	First Class with Distinction
PG	M.Sc.	Mathematics	2021	SRM Institute of Science and Technology	10/10	First Class with Distinction
PhD	Ph.D.	Cryptography using Automata Theory	2025	SRM Institute of Science and Technology	-	-

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sai Ram Engineering College	Assistant Professor	08/08/2025	Till Date	-	3	-
					3	-
TOTAL EXPERIENCE				**-**	**3**	**-**

Anna University Research Supervisor Ref no: NIL

Workshops/Seminars attended:
1. Participated in the workshop on **"Mathematical Aspects in Bio Sciences and Engineering"**, organized by SRM Institute of Science and Technology, Kattankulathur during 10-11, November 2022.
2. Participated in the NCM workshop on **"Groups and Computations",** organized by Krea University, Sri City, during 03-08 July, 2023.
3. Participated in the International workshop on **"Numerical and Analytical Techniques in Engineering Problems"**, organized by SRM Institute of Science and Technology, Kattankulathur during Jan 30 – Feb 1, 2023.
4. Participated in the Teachers' Enrichment workshop on **"Probability and Number Theory",** held at NIT Calicut, Kerala, during 29 Jan – 03 Feb 2024.
5. Participated in the **"Short-Term Training Program on Algebra and Analysis"**, organized by SRM Institute of Science and Technology, Kattankulathur during 13 – 18, December 2021.
6. Participated in the workshop on **"Mathematical Aspects in Bio Sciences and Engineering"**, organized by SRM Institute of Science and Technology, Kattankulathur during 10-11, November 2022.

FDP/STTP Attended:

1. Attended the online ATAL FDP on *"AI in Education"*, organized by Abdul Razzak Kalsekar Polytechnic during 13-18 October, 2025.

2. Completed the 12-week NPTEL-AICTE Faculty Development Programme on *"Discrete Mathematics"*, from July-October 2025.

Symposium Attended:

1. Participated in the National Symposium on *"Mathematics and Applications"*, by IIT Madras, Chennai on 22 December, 2023.

Conference Attended:

1. Presented a paper in "International Conference on Mathematical Techniques and Applications" conducted by SRM Institute of Science and Technology Kattankulathur during 23rd–25th March, 2022 on the title **Analyse the sequence of DNA by Automata**.

2. Presented a paper in "International Conference on Emerging Trends in Mathematical Sciences and Applications" conducted by Noorul Islam Center for Higher Education, Kumaracoil on 26th April, 2023 on the title **A Novel Cryptosystem Using Finite Automata**.

3. Presented a paper in "International Conference on Mathematical Modelling Applied Analysis and Computation" conducted by JECRC University during 03rd–05th August, 2023 on the title **An Innovative Cryptographic Algorithm Using Finite State Machine for Enhanced Data Security**.

4. Presented a paper in "International Conference on Computational Modelling in Science and Engineering" conducted by NIT Warangal during 28th–30th October, 2023 on the title **Elevating Data Entropy and Efficiency through Symmetric Cryptographic Technique**.

5. Presented a poster in "Dr. Parivendhar Research Collaquim" conducted by SRM Institute of Science and Technology Kattankulathur during 29th–31st March, 2023 on the title **Enhancing Cryptographic Randomness Using 1-D Cellular Automata**.

Completed / Ongoing Projects: NIL

Journal Publications:

1. **A. Yasmin**, R. Venkatesan, K. Gaverchand, Salah Boulaaras, and Asma Alharbi, *"A dynamic image encryption scheme through 2-D cellular automata and chaotic logistic map"*, Scientific Reports, 15:36116, 2025.

2. **A. Yasmin**, R. Venkatesan, and K. Gaverchand, *"A Novel (n, n) Multi-Secret Image Sharing Scheme Harnessing RNA Cryptography and 1-D Group Cellular Automata",* Indonesian Journal of Electrical Engineering and Computer Science, 39(1): 700-709, 2025.

3. K. Gaverchand, R. Venkatesan and **A. Yasmin**, *"An Innovative Image Encryption Scheme Integrating Chaotic Maps, DNA Encoding and Cellular Automata"*, Indonesian Journal of Electrical Engineering and Computer Science, 39(1): 710-719, 2025.

4. **A. Yasmin**, R. Venkatesan and, K. Gaverchand, *"Enhancing the Randomness of a Symmetric Cryptography Technique Based on Linear 1-D Cellular Automata"*, Journal of Discrete Mathematical Sciences and Cryptography, 28(1):185-204,2025.

5. **A. Yasmin** and R. Venkatesan, *"An Innovative RNA Cryptosystem Using Moore Machine"*, Turkish World Mathematical Society Journal of Applied and Engineering Mathematics, 15(1): 242-255, 2025.

6. K. Gaverchand, R. Venkatesan, K. Jacob, and **A. Yasmin**, *"Enhancing Security and Randomness of DNA Cryptosystem Generated by Using Mealy Machine"*, Journal of Soft Computing and Data Mining, 5(2): 245-263, 2024.

7. K. Gaverchand, R. Venkatesan, and **A. Yasmin**, *"Dual Level Strategy Integrating 2-D CA and DCT Technique for Enhanced Data Protection"*, Mathematics and Statistics, 12(5): 428-442, 2024.

8. **A. Yasmin**, R. Venkatesan, and K. Gaverchand, *"Elevating Data Entropy and Efficiency Through Symmetric Cryptographic Technique Based on Finite State Machine"*, Mathematics and Statistics, 12(5):484-493, 2024.

9. E. Nandakumar, R. Venkatesan, and **A. Yasmin**, *"Various Energies of Power Graph of Some Finite Groups"*, AIP Conference Proceedings, 2516, 2022.

10. E. Nandakumar, R. Venkatesan, and **A. Yasmin**, *"The Laplacian and Signless Laplacian energy of a graph under perturbation"*, AIP Conference Proceedings 2277, 140002, 2020.

Books / Book Chapters: NIL

Awards:

1. **Gold Medallist** in M.Sc. Mathematics

2. **Silver Medallist** in B.Sc. Mathematics

Startup: NIL

Webinar: NIL

Resource Person: NIL

Online Courses:

1. Completed the 12-week NPTEL Online Certification course on *"Discrete Mathematics"* with a consolidated score of 61% [July-October 2025].