


<b>Name:</b> <b>Dr. A. YASMIN</b>				
<b>Designation:</b>	<b>ASSISTANT PROFESSOR</b>			
<b>Qualification:</b>	M.Sc., Ph.D.,			
<b>Area of specialization:</b>	CRYPTOGRAPHY, AUTOMATA THEORY			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	<b>NIL</b>		<b>3 Months</b>	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	<b>6</b>		<b>2</b>	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	<b>NIL</b>	<b>2</b>	<b>NIL</b>	<b>8</b>
<b>Professional Body Membership</b>	<b>IEEE Membership</b>			
<b>Staff Achievements</b>	<b>NIL</b>			

**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	-
<b>TOTAL EXPERIENCE</b>				-	<b>3</b>	-

**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].