


<b>Name:</b> HEMANTH KUMAR S	<b>Photo</b> 			
<b>Designation:</b>	ASSOCIATE PROFESSOR			
<b>Qualification:</b>	M.Sc., M.Phil., (Ph.D.) SET Qualified			
<b>Area of specialization:</b>	STOCHASTIC PROCESS			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	NIL		18 YEARS 7 MONTHS	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	8		23	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	NIL	NIL	NIL	4
<b>Books / Book Chapters</b>	1/0			
<b>Patents:</b>	<b>National</b>		<b>International</b>	
	3			
<b>Professional Body Membership</b>	IEEE, AICTE			
<b>Staff Achievements</b>	Produced 100% results in ITSPC. Received NPTEL STAR during Jan-Apr 2024. Received NPTEL MOTIVATED LEARNERS during Jan-Apr 2025.			



## Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.	Mathematics	2004	R.V. Govt. Arts & Science College	Madras University	78.5%	I Class
PG	M.Sc.	Mathematics	2006	Loyola college	Madras university	85%	I Class with distinction
	M.Phil.	Mathematics	2007	RIASM College	University Of Madras	67%	I Class
Ph.D	Ph.D	Mathematics	Doing	Sri Venkateswara College of Engineering	Anna University	--	--

## Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
V.S. Sri Ranka Sanka Arts & Science College	Lecturer	13.09.2007	23.09.2008	1	-	10
Sree Sastha Institute of Engineering & Technology	Lecturer	13.10.2008	05.05.2011	2	6	22
Asan Memorial college Engineering & Technology	Assistant Professor	23.05.2011	31.05.2013	2	-	8
Sri Sai Ram Engineering College	Associate Professor	03.06.2013	31.07.2023	10	1	28
		01.08.2023	Till Date	2	8	-
<b>Total</b>				<b>18</b>	<b>7</b>	<b>8</b>

## Workshops/Seminars attended:

1. International Workshop on Discrete Mathematics and its applications at Asan memorial of Engineering and Technology on 09.08.2012.
2. One-day workshop on “ADVANCED COMPUTATIONS THROUGH MATHEMATICS” at VIT Chennai

on 08.02.2013.

3. Workshop on Mathematical approach to Physical Sciences at SSN College of Engineering 14, 15.02.2013.
4. Participated in “INDO-GERMAN WORKSHOP” in the topic “Applied Mathematics in Engineering and Industry”, on 25.10.2013 at Alpha Engineering College.
5. Participated in Workshop on “RESEARCH PRACTICES ON TOPICS IN MATHEMATICS AND COMPUTER SCIENCE” on Aug 7, 8 2014 at Madras Christian College.
6. Workshop on “DIFFERENTIAL AND INTEGRAL CALCULUS” ON 11.08.2017 at Easwari Engineering College.
7. One-day Workshop on “INTELLECTUAL PROPERTY RIGHTS & INNOVATIONS” Sri Sairam Engineering College, Chennai.
8. National level one day workshop on “Queuing with retention of impatient customers” on 12.06.2020 at Hindusthan College of Engineering and Technology.

**FDP/STTP Attended:**

1. Participated in “BRIDGE COURSE” conducted by CENTRE FOR FACULTY DEVELOPMENT, Anna University, Chennai. On 23, 24.06.2014.
2. State Level Faculty Development Programme on “DISCRETE MATHEMATICS AND GRAPH THEORY” on 30 June, 1 July 2016 at KCG College of Technology.
3. Faculty Development Programme on “ADVANCES IN STATISTICAL METHODS” on 20 Dec 2017 at Rajalakshmi Engineering College, Chennai.
4. Faculty Development program on Creative Thinking conducted by ICT Academy at Annai Theresa Arts and Science College, 27.03.2019 to 28.03.2019.
5. Faculty Development Programme on “ALGEBRA AND NUMBER THEORY” FROM 10.06.2019 to 15.06.2019 at Sri Sairam Institute of Technology, Chennai.
6. State level three days Faculty Development Programme (Online) on “Applications of Mathematics”, from 13.06.2020 to 15.06.2020 at Hindustan College of Engineering and Technology.
7. Online Faculty Development Programme on “Fuzzy Sets and Systems”, at Patrician college of Arts and Science, Chennai on 16.05.2020
8. Two days Faculty Development Programme on “Research Methodology”, at Jeppiaar Institute of Technology, Sriperumbudur from 01.06.2020 to 02.06.2020.

9. 7 days National level Faculty Development Programme - "Prudent Teaching Dynamics" at IQAC SAFI Institute of Advanced study, Kerala from 21.06.21 to 28.06.21
10. One Week National Level online FDP on "Number theory and its applications" at GATES Institute of Technology, Ananthapuramu, Andhra Pradesh from 14.06.21 to 19.06.21
11. Five days National Level Faculty Development Programme on "Advancing towards Sustainable teaching and learning pedagogy" at Kongu Arts and Learning Pedagogy, Erode from 02.08.21 to 06.08.21
12. Three days State Level Faculty Development Programme on "Advanced Latex" conducted by Division of Mathematics, School of Advanced Sciences (SAS) during 27.06.22-29.06.22 at Vellore Institute of Technology, Chennai.
13. Five days training program in SIRD maramalai Nagar during 09.01.23-13.01.23
14. Five days National Level Faculty Development Programme on "Applied Statistical methods for Research" conducted by Division of Mathematics, School of Advanced Sciences (SAS) during 03.04.23 -07.04.23 at VIT, Chennai.
15. Five days National Level Faculty Development Programme on "Regression Analysis in Research" conducted by Division of Mathematics, School of Advanced Sciences (SAS) during 24.04.23 -28.04.23 at VIT, Chennai.
16. Five days National Level Faculty Development Programme on "EMPOWERING EDUCATORS STRATEGIES FOR HOLISTIC TEACHING AND PROFESSIONAL GROWTH" conducted by SRI MALOLAN COLLEGE OF ARTS AND SCIENCE during 18.12.23-22.12.23.
17. Five days National Level Faculty Development Programme on "E- Content Development", conducted by SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN, UDUMALPET during 12.02.24-16.02.24.
18. Seven days National Level Faculty Development Programme on "DATA DRIVEN INSIGHTS ON APPLICATIONS OF MATHEMATICAL AND STATISTICAL MODELING", conducted by ST. JOSEPH'S COLLEGE (ARTS AND SCIENCE) during 27.02.24-04.03.24.
19. Five days National Level Faculty Development Programme on "MATHEMATICS AND ITS APPLICATION", conducted by PSGR KRISHNAMMAL COLLEGE FOR WOMEN during 11.03.24-15.03.24.
20. 3 months National Level Faculty Development Programme on "Introduction to Abstract Group Theory", conducted by NPTEL-AICTE during July-Sep.
21. Six Days National Level Faculty Development Programme on "ADVANCED MATHEMATICAL CONCEPTS & THEIR REAL-WORLD APPLICATIONS", conducted by Veltech Ranga Sanka Arts College during 05.08.2024-10.08.2024

22. Five days National Level Faculty Development Programme on “DATA DRIVEN DECISION MAKING: APPLIED LINEAR ALGEBRA, INTEGRATING STATISTICAL METHODS AND DATA SCIENCE IN RESEARCH”, conducted by St. Joseph’s College (Arts and Science) during 23.09.2024-27.09.2024.

23. Five days National Level Faculty Development Programme on Outcome-Based Learning in HEI’s for Quality Education, Dhaanish Ahmed Institute of Technology, Coimbatore from 18.07.2025 to 22.07.2025.

**Conference Attended:**

International Conference on Stochastic Modelling and simulation at Vel Tech Dr.C.R. & Dr.C.R. Technical University 15-17 December 2011.

Presented paper in the 37 th Annual Conference of Ramanujan Mathematical Society, titled, “A single Product Production Inventory System with a Stochastic Switch”. 06-08 Dec-2022.

Presented paper in the conference title, “Analysis of a Complex 4-unit series-parallel Warm system”, in ICAMA-2025, Sri Sairam Engineering College, Chennai.08-09 May 2025.

Completed / Ongoing Projects:

Patent:

- 1) Real-Time Adaptive Stochastic Differential Equation Inventory Model For Supply Chain Management, 29.10.23
- 2) Methods and System for Simulating Fractional Order Systems Using Advanced Computational Algorithms, 19.04.25.
- 3) Advanced statistical models for predictive models for predictive analysis in health data using machine learning, 06.02.2026

Journal Publications:

1. Title: CELLULAR BASIS AND DIMENSIONS OF CELL MODULES OF PARTY ALGEBRAS. International Journal (Journal of Physics Conference Series)
2. Title: CONSTRUCTION AND CELLULAR OF TANABE ALGEBRAS International Journal AIP Conference Proceedings.
3. Title: CELLULARITY OF  $(Z_3 \times S_n)$  GROUP ALGEBRAS International Journal AIP Conference Proceedings.
4. Title: “AVAILABILITY AND RELIABILITY ANALYSIS OF A TWO-UNIT PARALLEL SYSTEM SUBJECT TO FAILURE AND REPAIR OPERATING IN A MULTI-LEVEL ENVIRONMENT”, TWMS journal of Applied and Engineering Mathematics

## **Books**

Queuing Theory and its Models

Online Courses:

1. Got an Elite Certificate (2% of the toppers) in NPTEL Online Certification course on “Numerical methods: Finite difference approach” funded by the Ministry of HRD, Government of India.
2. Successfully completed the NPTEL online course “Advanced probability theory with 57%
3. Successfully completed the NPTEL online course “Stochastic Processes” with 55%
4. Successfully completed the NPTEL online course Introduction to Probability Theory and Stochastic Processes with 53%.
5. Successfully completed the NPTEL online course “Numerical Methods Finite difference approach with 82%
6. Successfully completed the NPTEL online course “Discrete Mathematics” with 70%
7. Successfully completed the NPTEL online course “Linear Algebra” with 62%
8. Successfully completed the NPTEL online course “Introduction to Abstract Group Theory”, with 60%.
9. Successfully completed the edX online course, “Statistics and R” from Harvard University on 21.07.2020.
10. Successfully completed Online Coursera Course “Six Sigma tools for Analyze” on 08.05.2020.
11. Successfully completed Online Coursera Course “Six Sigma Principles” on 9.5.2020.
12. Successfully completed Online Coursera Course “An Intuitive Introduction to Probability”, on 12.05.2020
13. Successfully completed Online Coursera Course “Combinatorics and Probability” on 12.05.2020
14. Successfully completed Online Coursera Course “Successful Negotiation: Essential Strategies and Skills” on 15.05.2020.
15. Successfully completed Online Coursera Course “Work Smarter, Not Harder: Time Management for Personal and Professional Productivity” on 02.06.2020
16. Successfully completed Online Coursera Course “Stochastic Processes” on 03.06.2020.
17. Successfully completed Online Coursera Course “The Science of Success: What Researchers Know that you should know” on 14.06.2020.
18. Successfully completed Online Coursera Course “Converting Challenges in to Opportunities”

on 14.06.2020.

19. Successfully completed Online Coursera Course “Emotions a Philosophical Introduction” on 01.07.2020.
20. Successfully completed Online NITTTR Module “Creative Problem Solving, Innovation & Meaningful R & D” on Sep-21.
21. Successfully completed Online NITTTR Module “Communication Skills Models & Knowledge Dissemination” on July-22
22. Successfully completed Online NITTTR Module “Professional Ethics & Sustainable Development” on July-22
23. Successfully completed Online NITTTR Module “Orientation Towards Technical Education & Curricular Aspects.
  
24. Successfully completed the NPTEL online course “Calculus-II” with 76%
25. Successfully completed the NPTEL online course “Statistical Learning for Reliability Analysis” with 90%

### **Quality Improvement Program:**

1. Training Program on instructional design and delivery by NITTTR, Ministry of Human Resources Development, Government of India at Sri Sastha Institute of Engineering and Technology.

### **Extra-curricular Activities:**

- Grade A Certified R & V SQN NCC Squad, Tamilnadu.