**Brief Profile**

**Ms. H. Mary Henrietta**

Assistant Professor (Senior Grade)

Department of Mathematics

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Scopus <https://www.scopus.com/authid/detail.uri?authorId=57211461493>

Google scholar <https://scholar.google.com/citations?hl=en&user=hPpx7J4AAAAJ>

Web of Science <https://www.webofscience.com/wos/author/record/ACB-5569-2022>

**Social links**

LinkedIn <https://www.linkedin.com/in/h-mary-henrietta-8057241a9>

It gives me immense pleasure to introduce myself in brief.

# Academic Profile

**Ph. D** Currently Pursuing Part-time Ph.D. (**Mathematics**) under

**Bharathidasan University**, Trichy (Thesis submission in 2023).

**M. Phil** Master of Philosophy Degree in **Mathematics** from **Loyola College** (Autonomous), Chennai with an aggregate of **81%** marks with **distinction.**

**M. Sc** Master Degree in **Applicable Mathematics** from **J.B.A.S College for Women**, (Formerly S.I.E.T), Chennai (Madras University) with an aggregate of **69%** marks

**B. Sc** Bachelor Degree in **Mathematics** from **Madras University** with an aggregate of **63%** marks

**HSC** Secondary School Education from Sacred Heart (Mat) Higher Secondary School, **Church Park**, Chennai. with **67**% marks

**Academic Experience**

* Currently working as an **Assistant Professor (SG)** in the Department of Mathematics since 2015.
* Joined as an Assistant Professor (OG) of Mathematics in the Department of Science and Humanities, **Saveetha Engineering College (Autonomous)**, Chennai in August 2015 and elevated as an **Assistant Professor (SG)** [**promotion based on merit**] in June 2018 based on my academic achievements.
* Having **14 years** of teaching experience in various reputed Engineering Colleges all over Tamil Nadu

**Previous teaching experiences**

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| --- | --- | --- |
| Lecturer | KCG college of Technology, Chennai | 27th July 2005 - 7th Nov 2007. |
| Lecturer | Karunya University, Coimbatore | 15th June 2009 - 25th May 2011. |
| Assistant Professor | SRM University, Ramapuram, Chennai | 15th June 2012 - 30th April 2013. |
| Assistant Professor | Vel Tech Technical University, Chennai | 15th June 2013 - 23rd May 2014 |

**Research Interests:**

Fuzzy sets, optimization, inventory models, nutrition and human health.

**Member of Editorial Board**

* **Associate Editor** - Indiana Journal of Multidisciplinary Research Journal.

<https://indianapublications.com/articles/index?details=L2sxcGhmLytiS1NtR00xT3NGSUsrdz09>

**Reviewer in reputed international journals**

1. Sugar Tech (Springer)
2. Journal of Intelligent Fuzzy Systems (JIFS)
3. Materials Today: Proceedings
4. Ratio Mathematica
5. Journal of Engineering Research and Reports (JERR)
6. Advances and Applications in Mathematical Sciences
7. Asian Research Journal of Mathematics (ARJOM)
8. Asian Journal of Pure and Applied Mathematics
9. Journal of Advances in Mathematics and Computer Sciences (JAMCS)
10. International Journal of Innovative Science, Engineering and Technology (IJISET)
11. International Journal of Information and Computer Security (Inderscience)
12. Journal of Model Based Research (JMBR)
13. International Journal of Management and Fuzzy Systems.
14. Iraqi Journal of Computer Science and Mathematics.
15. Journal of Sustainability and Environmental Management (JOSEM)

**Achievements - Academic**

* Acted as a **Guest Speaker** for St. Joseph’s University, Nagaland and delivered a lecture (online) on the topic "**The Mathematics of Accumulation and Change: Understanding the World through Integrals**" on May 11, 2023.
* Acted as a **Coordinator** for **International Conference on Innovations in Science and Humanities** (ICISH ‘23) held during 19th and 20th April 2023.
* Acted as a **Judge** for Comic strip event – National Science Day 2023 conducted by the Department of Physics, Saveetha Engineering College.
* Accoladed with the **Best Faculty Award for Academic Excellence &** **Department topper (2015-2016)**.
* Bagged **Awards for Academic Excellence** in regard for producing **highest results** in **University Examinations** during the consecutive years 2015-2016, 2016-2017 & 2017-2018 for subjects Engineering Mathematics I, II, Probability and Queueing theory and Statistics & Numerical methods under **Anna University (Regulations 2013)**.

**College level Responsibilities**

* Coordinator and in charge of **Math Club**
* Department **Board of Studies** coordinator during 2022-2023.
* **Event Coordinator** for Department of Mathematics & Spectrum activities (Saveetha Engineering College) - Conducted events for **National Mathematics Day**, December 2022.
* **Organized** a webinar on “The Applications of Graph Theory” on 7th May 2022.
* **Member of Autonomous Board of studies** (Saveetha Engineering College) representing the Department of Mathematics for **framing the syllabus** for Department of Agriculture as per ICAR for Autonomous Curriculum.

**Membership in** **Professional bodies**

1. International Indian Statistical Association (IN-00-2412)
2. The Indian Mathematical Society – Sessional Member

**Achievements - Research**

* Published **17** international journal **publications** both core and multi-disciplinary.
* **7 Scopus** publications and **h-index** 3
* Participated and presented in **11** international and national conferences all over India.

**Journal Publications**

1. K. Kalaiarasi, M. Sumathi, **H. Mary Henrietta**, Optimization of fuzzy inventory model for EOQ using Lagrangian method, Malaya Journal of Matematik. 7(3):497-501 (2019)
2. K. Kalaiarasi, M. Sumathi, **H. Mary Henrietta**, Optimization of fuzzy inventory EOQ model using Kuhn-tucker method, Journal of Advanced Research and Dynamical Control Systems.Vol.11,09-Special Issue. (2019)
3. K. Kalaiarasi, M. Sumathi, **H. Mary Henrietta** Inventory model optimized to rectify the shortage by using Kuhn-tucker method, International Journal of Analytical and Experimental Modal Analysis. (2020)
4. K. Kalaiarasi, M. Sumathi, **H. Mary Henrietta**, Optimizing EOQ using geometric programming with varying fuzzy numbers by applying python, Journal of Critical Reviews. 7(18): 596-603 (2020)
5. K. Kalaiarasi, M. Sumathi, **H. Mary Henrietta,** A. Stanley Raj, Determining the Efficiency of Fuzzy Logic EOQ Inventory Model with Varying Demand in Comparison with Lagrangian and Kuhn-Tucker. Journal of Model based Research. 1(3):1-12 (2020)
6. A. Stanley Raj, **H. Mary Henrietta**, K. Kalaiarasi, M. Sumathi, Rethinking the limits of optimization Economic Order Quantity (EOQ) using Self generating training model by Adaptive Neuro Fuzzy Inference System. Communications in Computer and Information Sciences, Springer Book series (2021) [Scopus]
7. K. Kalaiarasi, **H. Mary Henrietta,** M. Sumathi, A. Stanley Raj, The Economic order quantity in a fuzzy environment for a periodic inventory model with variable demand, Iraqi Journal of Computer Science and Mathematics. 3(1):102-107 (2022). [Scopus]
8. K. Kalaiarasi, **H. Mary Henrietta**, M. Sumathi, Applying Hessian matrix technique to obtain the efficient optimal order quantity using fuzzy parameters, Communications in Mathematics and Application. 13(2):1-11 (2022). [Web of Sciences]
9. N. Yusroni, D. Galgotia, Bodhankar H, Tannady, **H. Mary Henrietta**, et.al. A multi-cast policy management process for improved network security with the group-oriented applications, International Journal of Intelligent Systems and applications in Engineering. 10(2): 246 -251 (2022). [Scopus]
10. J. Arockia Venice, Kiran Kumar, **H. Mary Henrietta** et al. Artificial Intelligence based robotic system with enhanced information technology, IEEE Xplore (2022). [Scopus]
11. A. Stanley Raj, **H. Mary Henrietta**, A Robust self-generating ANFIS training algorithm for time series and non-times series intended for non-linear optimization, Lecture Notes in Networks and Systems, 647:21-31 (2023). [Scopus]
12. K. Kalaiarasi, **H. Mary Henrietta,** M. Sumathi, The optimality representation of a finite-life inventory model with exiguous defectives with Hessian matrix Approach, Nonlinear Studies. 30(2): 393-398 (2023). [Scopus]
13. A. Stanley Raj, **H. Mary Henrietta**, J.P. Angelena, Rainfall data classification using Mann-Kendall test statistics associated with Neuro fuzzy technique: A case study of Chennai district, International Journal of Hybrid Intelligent Systems 19:95-109 (2023).
14. **H. Mary Henrietta,** K. Kalaiarasi, M. Sumathi, Optimizing Economic order quantity through Geometric programming with fuzzification of inventory parameters. Journal of Natural Sciences 14(79): 58071-58078. (2023) [Web of Sciences].

**Interdisciplinary Research Activities**

1. **H. Mary Henrietta**, Megavathi Mohanraj, Implementation of Hydroponics as a Twin support for Electric Power, Annals of Romanian Society for Cell Biology, 25(2):1002-1007 (2021).
2. **H. Mary Henrietta**, A. Stanley Raj, M. Megavathi, V. Kavinil, B. Giridharan, An Investigation on Dietetics and Nutritional interests using Quantitative analysis in the existing prevalent conditions on COVID-19, Journal of Human Health Research, 1(3):15-23 (2021).
3. **H. Mary Henrietta**, K. Kalaiarasi, A. Stanley Raj, Coconut Tree (Cocos Nucifera) Products: A review of Global cultivation and its benefits, Journal of Sustainability and Environmental Management, 1(2):257-264 (2022).
4. **H. Mary Henrietta**, S. Bagavath Kumar, K. Charan, A study on the significant role and impact of nutrition-based interventions on human health during COVID-19, International Journal of Science Annals (**Under Review**)
5. **H. Mary Henrietta,** A Comprehensive Review on human health, promoting the well-being of teaching professionals, International Journal of Environment, Engineering and Education. 5(2): 79-86.
6. **H. Mary Henrietta,** A. Stanley Raj, AI-enabled algorithm for evaluating the impact of COVID-19 on food consumption and nutrition. Journal of Supercomputing. (**Under review)**

I hereby declare the above furnished details are true to my knowledge.

Ms. H. Mary Henrietta