

**Name:** Dr. P. Vignesh

**Academic Qualification:** M.Sc, M.Ed, SET, Ph.D

**Experience:** Teaching – 14 years

**Specialization:** Queueing Theory, Differential Equation, Calculus & Statistics.

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**Education:**

- Ph. D. – B.S.Abdurrahman Crescent Institute of Science & Technology, 2023.
- M.Ed. – Manonmaniam Sundaranar University, 2010.
- B.Ed. – P.S.N College of Education, 2009.
- M.Sc. – St. John's College, 2008.
- B.Sc. - St. John's College, 2006.

**Professional Experience:**

- Assistant Professor in Apollo College of Arts and Science 2010– 2017.
- Assistant Professor in Patrician College of Arts and Science 2017 - 2023
- Assistant Professor in SIMATS, SSE from Oct 2023

**Teaching Experience:**

- P.G. (in years) - 2          U.G .Classes - 14

**PUBLICATIONS:**

1. Vignesh, P., Srinivasan, S., & Sundari, S. M. (2019). Analysis of a non-Markovian single server batch arrival queueing system of compulsory three stages of services with fourth optional stage service, service interruptions and deterministic server vacations. International Journal of Operational Research, Vol. 34, No. 1, pp. 28-53. (**SCOPUS**)
2. Vignesh, P., Srinivasan, S., & Sundari, S. M. (2017). Analysis of non-Markovian batch arrival queueing model with multi stages of service of restricted admissibility, feedback service and three optional vacations in production and manufacturing. International Journal of Mathematics in Operational Research, Vol. 11, No.3, pp. 285-309. (**SCOPUS**)
3. Vignesh, P., Srinivasan, S., & Sundari, S. M. & Eswar, K. S. (2023). An investigation on MX/G/1 queueing model of interrupted services in the manufacturing of edible cutlery process, Int. J. Mathematical Modelling and Numerical Optimisation, Vol. 13, No. 2, pp.173-201.
4. Vignesh, P., Srinivasan, S., & Swedheetha, C. (2023). Study on the queueing characteristics of MX/G/1 queueing model of stages of service with multi vacation policy and setup time phase, Int. J. of Process Management and Benchmarking, DOI: 10.1504/IJPMB.2022.10054017
5. Vignesh, P., Srinivasan, S., & Sundari, S. M. & Kameswari, M. (2023) Research in Big Data Analytics utilizing Simulations. Proceedings of the second International Conference on Applied Artificial Intelligence and Computing, **ICAAIC 2023**.
6. Vaishnavi, T., Vignesh, P.(2024). Design of Highway Automated Toll Assortment Scheme for Intelligent Transportation Systems. IEEE Proceeding of the International Conference on Sustainable Computing and Smart Systems 2024.

7. Maragathasundari, S. Sudhakar, P., K. and Vignesh, P. Queuing process optimization in software-defined radio: Enhancing system performance and adaptability. Ain Shams Engineering Journal 2024.(SCI)
8. Dhivya Sundar, Vediappan Govindan and Vignesh, P. "HYERS-ULAM STABILITY OF EBOLA AND NIPAH VIRUS CO-INFECTION FRACTIONAL DYNAMICS" Fractals (2024) 2540034 DOI: 10.1142/S0218348X25400341 .(SCI)
9. Vignesh, P. and Sudhakar, P. K. "To Investigate the Issue of Administrator Infiltration Using Queuing Approach" AIP Conference Proceedings ICRAETS 2024.
10. Selvi, H., Vignesh, P. and Sudhakar, P. K. "To predict the Dyslexia Children using hand writing image based on Image Processing Techniques" Taylor and Francis Conference Proceedings August 2024.
11. Vignesh, P., Sudhakar, P.K., Implementation of Queueing Concepts to investigate Managerial Enchroachment Issues. Communicated

#### CONFERENCE:

- Faculty Development Programme on "Employability Skills Informative and Program, Startup and Investment in Patrician Cooperative Stores and Building Global Partnerships and Opportunities" organised by PCEC, PIIC, PEDC, SAC in association with IQAC on 27th August 2022
- FDP on Learning through Bench Marking: Quality and Innovation conducted by IQAC Patrician College of Arts and Science on 23/05/2022 – 25/05/2022
- Attending the 2 days FDP on e-Resources on 24th and 25th February 2022 by Library Committee PCAS.
- Has participated in Six days International Virtual FDP on "RECENT RESEARCH ADVANCES IN MATHEMATICS" organized by Department of Mathematics in association with IQAC, St. Joseph's College (Arts & Science), Kovur, Chennai. During 04.10.2021 - 09.10.2021.
- Has actively participated in 5 Day National Level Faculty Development Programme on "ENTREPRENEURSHIP AND INNOVATION" hosted by Patrician College of Arts and Science, from Monday 8th March 2021 to Monday 15th March 2021.
- Presented a paper, "An Model with Mandatory Excursion of long or brief span, arbitrary Breakdown examination on Batch entry Lining" in the "International Conference on Mathematical Methods, Modeling and simulation in Chemical Sciences" during December 06-08, held at SSN College of Engineering
- Presented a paper, "Examining the issue of Administration Intrusion by means of Queueing Methodology" in the "International Conference on Research Trends in Contemporary Mathematics" during 2023 Feb 03-04, held at Patrician College of Arts and Science.
- Research in Big Data Analytics Utilizing Simulations P. Vignesh, S. Srinivasan, S. Maragathasundari, K. Karthikeyan, C. Swedheetha, M. Kameswari 2023 2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC)

### Workshop Attended:

- Participated Five days National level Faculty Development Programme on Entrepreneurship and Innovation organized by Patrician college of Arts and Science, Chennai dated 08.03.2021 to 15.03.2021
- Teachers Enrichment Workshop" on "**Analysis and Algebra**" during 5th to 28th February 2021[All Friday, Saturday, Sunday].
- Attended one week National Level Faculty Development Programme on “Effective and Quality Research Writing” Organised by PCAS from 7<sup>th</sup> June to 13<sup>th</sup> June 2020.
- Attended a two Day online FDP organized by PCAS, Chennai on “Project proposals for Funding Agencies (UGC stride and ICSSR Impress) Preparation and Submission Protocol on 16/05/20and 17/05/20
- Participated One Day International Faculty Development Programme on “Fuzzy Sets and System” Organised by Department of Mathematics (Shift II), Patrician College of Arts & Science, Adyar and Chennai ON 16TH May 2020
- Workshop on “Tips and Tricks for Higher Education in Mathematics” by Department of Mathematics, Patrician college of arts and science, Adyar, Chennai. Organized on 28/02/2020 28/02/2020
- Webinar on Yoga for Healthy Life- Stay Fit by Patrician college of arts and science, Adyar, Chennai Attended 23/05/2020 23/05/2020
- Participated Faculty Development Programme on Examinations in Wake of COVID – 19, organized by Patrician College of Arts and Science, Chennai dated on 08.05.2020
- Attended a Webinar organized by CCC and Department of Civil Supplies on “ Caveat Emptor – Impact of Covid 19” organized by PCAS on18/05/20
- Two day Online Faculty Development Programme (FDP) on Project Proposal for Funding Agencies (UGC STRIDE & ICSSR IMPRESS): Preparation & Submission Protocol on 16.05.2020 and 17.05.2020, was conducted by Patrician College Research Committee, Patrician College of Arts & Science, Adyar, and Chennai.
- Online FDP on Fuzzy Sets and Systems on 16th May, 2020, was conducted by Department of Mathematics Shift – II, Patrician College of Arts & Science, Adyar, and Chennai.
- Participated state level workshop on Intellectual Property Rights organized by Patrician College of Arts and Science, Adyar, dated 13 th September 2019
- One Day National Workshop on “ R Programming” conducted by Patrician college of arts and science, Adyar, Chennai. Organize d 06/07/2019 06/07/2019
- Attended **Teachers Enrichment Program (TEW)** at **The Institute of Mathematical Sciences (IMSc)** from 20th May to 25th May 2019