RESUME

Name	:	**P. NAGARAJAN M.sc, M.phil, Ph.D.**
Father's Name	:	G. Pattumani B.A.,
Residential Address	:	28.29, Adhi Shankarar Nagar,
		Enathur
		Kanchipuram 631561
Permanent Address	:	66/29 East Car Street,
		Chidambaram - 608001.
Designation	:	Assistant professor in Mathematics
		Department of science and humanities
		SCSVMV University
		Enathur,
		Kanchipuram.
Date of Birth	:	14.03.1982
Qualification	:	M.Sc., M.Phil., Ph.D (Mathematics)
Age & Date of Birth	:	42 & 14-03-1982
Email ID & Phone No.	:	nagarajandixit@gmail.com & 9952788541
Total experience	:	16 years and 11 month as on 16-07-2024.
Sex	:	Male

Education Qualification Details:

S.no	Degree	Institution	Year of completion
1	Ph.D	Annamalai University	2017
2	M.Phil (Maths)	Annamalai University	2008
3	M.S c(Maths)	Annamalai University	2006
4	B.Sc(Maths)	University of Madras	2004
5	H.Sc	Pachaiyappas Higher Secondary school, Chidambaram.	2001
6	SSLC	Pachaiyappas Higher Secondary school, Chidambaram.	1999

Ph.D : Thesis Title "Contribution to the study on some bulk queues with unreliable Server and with vacation" , Viva competed on 31.12.17.

M.Phil : A research on "An M/M/1 retrial queues with unreliable Server" and discussion about the results of this queuing system**.**

Area of Intérêts : Stochastic processes & Queuing theory.

Journal Publications:

1. Kalyanaraman.R and Nagarajan.P, "Bulk arrival, fixed batch service queue with unreliable server and with Bernoulli vacation", International journal of applied engineering research, Special issue Vol 11, No.1, Pp 421-429. January 2016. (ISSN 0973-4562)(Scopus indexed & ICI).(UGC Listed journal with S.No. 137)

2. Kalyanaraman.R and Nagarajan.P, "Bulk arrival, fixed batch service queue with unreliable server and with Bernoulli vacation, Two stages of service", Journal of Chemical and pharmaceutical science, Vol 09, issue 04, Pp 2271-2281. Oct Dec,2016. (ISSN 0974-2115)(Scopus indexed journal). .(UGC Listed journal with S.No. 19599)

3. Kalyanaraman.R and Nagarajan.P, "Bulk arrival, fixed batch service queue with unreliable server, Bernoulli vacation, Two stages of service and with delay time", International journal of mathematics trends and technology, Vol 38, No.1, Pp 48 57, Oct 2016. (ISSN 2231-5373) (Impact Factor= 1.32)

4. Kalyanaraman.R and Nagarajan.P, "Bulk arrival, fixed batch service queue with unreliable server and with compulsory vacation", Indian journal of science and technology, Vol 9(38), Pp 1-8, Oct 2016. (ISSN (print) 0974-6846, ISSN (online) 0974-5645) (Scopus indexed journal & ICI) (H-index 22) . .(UGC Listed journal with S.No. 122)

5. Kalyanaraman.R and Nagarajan.P, "A Bulk queue with unreliable server, with compulsory server vacation and with two stages of service", International journal of control theory and applications, Vol 9(28), Pp 527-538.2016(After july). (ISSN 0974-5572) (Scopus indexed journal)(H- index-09) . .(UGC Listed journal with S.No. 16612)

6. Kalyanaraman.R1 and Nagarajan.P2, "Bulk arrival, fixed batch service queue with unreliable server, compulsory vacation and with delay time", International Journal of Pure and Applied Mathematics, Special Issue, Volume 113 No. 6 , Pp 20-27, May 2017. ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) url: http://www.ijpam.eu(Scopus indexed journal)(UGC ---17460)

7. Kalyanaraman.R1 and Nagarajan.P2, "Bulk arrival, fixed batch service queue with unreliable server and with compulsory vacation, Two stages of service, Delay time", International Journal of Pure and Applied Mathematics, Special Issue, Volume 117 No.20 Pp 89-103, Dec. 2017. ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version) url: http://www.ijpam.eu(Scopus indexed journal)(UGC ---17460)

8. Kalyanaraman .R1 and Nagarajan P2, "Bulk arrival fixed batch service queue with unreliable server, Bernoulli vacation and with delay time" Recent Trends in Pure and Applied Mathematics, AIP Conference proceedings 2177, 020034-1 to 020034-12(2019), 04 December, 2019. Published by AIP Publishing 978-0-7354-1924-7 (https://doi.org/10.1063/1.5135209)

9. Nagarajan P, , Kalyanaraman .R "An $M^{[X]}/G^{(1, K)}/1$ queue with unreliable server and Bernoulli vacation", International Journal of Mathematics in Operational Research, Vol. 25, No.4, Pp. 492-510. Aug 2023. ISSN: 1757-5850 (print)

ISSN: 1757-5869 (online) https://doi.org/10.1504/IJMOR.2023.132836(Scopus)

Books Written

1. I have written a book titled on "Numerical methods with programs in MATLAB" in the academic year 2016-17. It is published in 2017-18.

2. An article titled "A Study on the history and Mathematics behind the Tower of Hanoi", a chapter in book Mathematical Sciences I, ESN Publications, Vol. 1, Pp. 115-121, December 2022. Aruppukottai Taluk,Virudhunagar District, Tamil Nadu, India. (ISBN: 978-9390781-54-6)

M.Phil Research Guidance

I have been guiding for M.phil mathematics (regular and part time) students since 2012. In total twenty M.phil students submitted their M.phil dissertations, and 19 students awarded degree .

M.Sc Project Guidance

I have been guiding for M.Sc Mathematics regular students for projects. Three M.Sc student submitted their project and viva completed.

Workshop Organized

1. A regional workshop on "Matlab and its applications", Organized by department of Mathematics, SCSVMV University, Enathur, Kanchipuram. (12.10.2015)

2. Annual Conference on History and Development of Mathematics, Organized by Department of Mathematics, SCSVMV Deemed to be University, Enathur, Kanchipuram, November 27-29,2018.

3. III rd National Webinar on Tricks using Vedic Mathematics, 23 May 2024. Organised by Department of Mathematics, SCSVMV.

Acted as Resource Person

1. Workshop on 'MATLAB and its Applications' held on 20.09.13 ,Conducted by the department of Mathematics, SCSVMV University, Enathure, Kanchipram-631561.

2. National workshop on "Basics of MATLAB", Organized by department of Physics, SCSVMV University, Enathur, Kanchipuram. (10.10.14).

3. Workshop on "MATLAB and its application", Organized by PG and Research department of mathematics, Government arts college, Chidambaram. (16.10.15).

4. A short term course on "Math with MATLAB", Organized by department of Mathematics and Statistics, K.B.N college, Vijayawada, Andrapradesh. (16.11.15 to 20.11.15) .

5. One day Workshop on "MATLAB ", Organized by Department of mathematics, Annamalai University Chidambaram. (04.03.16).

6. Quality enrichment program-I, Organized by department of Mathematics, SCSVMV University, (24.03.16).

7. National workshop on MATLAB in applied sciences, Organized by department of Mathematics ,SCSVMV University. 15.09.17 to 16.09.17

8. Workshop on MATLAB and its programming, Organized by Department of Mathematics, P.S. P.T M.G.R Government Arts and Science College, Sirkalai (Puthur)-609108. August 10-11,2019.

9. Invited lecture on the title " Application of Mathematics " PG and Research Department of mathematics, Government art college, Chidambaram. September 30,2019.

10. Lecture on the title "Magic Square" , An introductory workshop on vedic Mathematics, Organized by department of Mathematics, SCSVMV.June-22

11. Lecture on the title "NSS Day", Organized by Pachayappas Mens college, Kanchipuram.

12. Faculty Enrichment Program for Sankara School Teachers, from 16.05.24 to 18.05.24 , Organized by department of Mathematics, SCSVMV.

13. Ten days National level vritual faculty development program on Indian knowledge system (IKS) on the topic unveling the treasures vedic mathematics, conducted by Department of Mathematics, KG College of Arts and Science, Coimbatore and Shiksha Sanskriti Utthan Nyas (SSUN), Tamil Nadu from 20.05.2024 to 31.05.2024

Lectures at Department Research Colloquium

1. Lecture on the topic "When was the murder using first order differential equation" in the research colloquium organized by department of Mathematics during the academic year 2012-13.

2. Lecture on the topic "Application of Matrix Diagonalization Process in Finding the nth term of the Fibonacci Sequence" in the research colloquium organized by department of Mathematics during the academic year 2013-14.

3. Lecture on the topic "Application of Matrices and Its Operations in Image Processing " in the research colloquium organized by department of Mathematics held on 25.07.2014.

4. Lecture on the topic "Use of Logarithm and Power Law in Image Processing" in the research colloquium organized by department of Mathematics held on 20.02.2015.

5. Lecture on the topic "Math Behind the Web Page Ranking " **i**n the research colloquium organized by department of Mathematics held on 18.01.2016

6. Lecture on the topic "Web Page Ranking using a formula" **i**n the research colloquium organized by department of Mathematics during the academic year 25.11.2016.

7. Lecture titled on "Underlying Mathematics Behind the Angry Bird Video Game" **i**n the research colloquium organized by department of Mathematics on held 10.11.2017

8. Lecture titled on "Rouches theorem applied to queueing theory." **i**n the research colloquium organized by department of Mathematics during the academic year Nov 2017.

9. Lecture titled on "Applications of Z transform" Lecture titled on "Rouches theorem applied to queueing theory." **i**n the research colloquium organized by department of Mathematics on 15.02.2019

10. Lecture titled on "Methods of Solving Steady State Difference Equations of Queueing Systems"." **i**n the research colloquium organized by department of Mathematics on 24.01.2020

11. Lecture titled on "A Talk on Vacation Queueing System", **i**n the research colloquium organized by department of Mathematics on 30.07.2021

Proceeding publications

1. Kalyanaraman.R, Seenivasan.M and Nagarajan.P, "Four server retrial queue with orbital search", in the proceedings of International conference on Mathematical modeling and its applications, Pp 1-7, Dec 22-24, 2012.

2. Thillaigovindan.N, Kalyanaraman.R, Seenivasan.M and Nagarajan.P, "A Single server retrial queue with orbital search", in the proceedings of International conference on applied mathematical model, Pp 36-40, Jan 03-04, 2014 .

3. Kalyanaraman.R and Nagarajan.P, "Bulk queue with unreliable server and with Bernoulli vacation", in the proceedings of international conference on mathematics and its applications-2014, Pp 1173-1192, Dec 15-17, 2014.(ISBN 978-81-923752-7-4.)

4. Kalyanaraman R and Nagarajan P, " Bulk arrival, fixed batch service queue with unreliable server and with Bernoulli vacation ", in the proceeding of International conference on applied mathematical models 2016(ICAMM2016) Pp 736-747, January 2016.

5. Kalyanaraman R and Nagarajan P, " Bulk arrival, fixed batch service queue with unreliable server and with compulsory vacation " in the proceeding of International conference on Emerging trends in electronics communication and computing technology, Pp 544-551, May 5-6, 2016.

6. Nagarajan.P and Kishore Kumar N and Muniappan R "An $M/G^K/1$ queue with unreliable server and with compulsory vacation Two stages of service, Delay time" In the proceeding of International Conference on Pure and Applied Mathematics, SCSVMV 19-20 February,2018.

7. Nagarajan.P Krishnaveni V, " An $M/G^K/1$ with unreliable server, compulsory vacation and with delay time.". In the proceeding of International Conference on Pure and Applied Mathematics, SCSVMV 19-20, February,2018.

8. Nagarajan.P and Lakshmi, "An $M/G^K/1$ queue with unreliable server, Bernoulli vacation, Two stages of service and with Delay time". In the proceeding of International Conference on Pure and Applied Mathematics, SCSVMV 19-20,February,2018.

9. Nagarajan.P and Gowsalya M "An $M/G^K/1$ queue with unreliable server and with compulsory vacation Two stages of service, " In the proceeding of 2nd International Conference on Pure and Applied Mathematics, SCSVMV 17-19 December,2018. (ISBN-978-93-87088-30-6)Pp.119-129

10. Nagarajan.P and Harini Devi V "An $M/G^K/1$ queue with unreliable server and with compulsory vacation, " In the proceeding of 2nd International Conference on Pure and Applied Mathematics, SCSVMV 17-19 December,2018. (Full Paper) (ISBN-978-93-87088-30-6)Pp199-208

11. Nagarajan P and Kalyanaraman R, " $M^{(X)}/G^{(1,K)}/1$ queue with unreliable server and with compulsory vacation '. SCRS Proceedings of International Conference of Undergraduate Students 2023, Page No.107–117. Computing & Intelligent Systems, SCRS, India. https://doi.org/10.56155/978-81-955020-4-2-11

Paper Presented

1. International conference on Mathematical modeling and its applications, Organized by department of Mathematics, Annamalai University. Annamalai Nagar, Chidambaram. Dec 22-24, 2012.
   Paper Title "Four server retrial queue with orbital search

2. National conference on "Mathemaical modeling -2014", Organized by department of Mathematics, Annamalai University, Annamalainagar,Chidambaram. Feb21-22, 2014.
   Paper Title "The Stationary analysis of finite capacity multi server retrial queue"

3. International conference on "Mathematics and its applications-2014", Organized by department of Mathematics, University College of Engineering, Villupuram. Dec15-17,2014.
   Paper Title " Bulk queue with unreliable server and with Bernoulli vacation "

4. International conference on "Applied Mathematical Models-2016", Organized by department of Mathematics, PSG Technology, Coimbatore. January 5-7, 2016.
   Paper title" Bulk arrival, fixed batch service queue with unreliable server and with Bernoulli vacation "

5. International conference on "Emerging trends in electronics communication and computing technology", Organized by department of ECE, SCSVMV University, Enathur, Kanchipuram. May 5-6, 2016. Paper title " Bulk arrival, fixed batch service queue with unreliable server and with compulsory vacation "

6. International conference on "Technology, Engineering and Science", Organized by C.Abdul Hakeem college of engineering, Mel Visharam, Vellor. July 27-28, 2016. Paper title " A bulk queue with unreliable server with compulsory server vacation and with two states of service "

7. International conference on applicable Mathematics, Organized by Department of Mathematics, Stella Marris College, Chennai. Nov 30 and Dec 1,2016. Paper title "Bulk arrival, fixed batch service queue with unreliable server and with compulsory vacation, two stages of service, delay time"

8. National conference on mathematical techniques and their applications-2017 (NCMTA-2017), Organized by department of mathematics, Faculty of science and humanities, SRM University, Kattankulathur, Chennai. 27,28-01-17. Paper titile "Bulk arrival, fixed batch service queue with unreliable server, compulsory vacation and with delay time"

9. International Conference on Discrete and Computational Mathematics- ICDCM 2017, Organized by Department of Mathematics, The Gandhigram Rural Institute-Deemed University. February 16-18, 2017. (attended on 18th only). Paper title " Bulk Arrival, Fixed Batch Service Queue With Unreliable Server, Bernoulli Vacation and With Delay time ".

10. International Conference on Mathematical Impacts in Science and Technology, BIT-MIST 2017, 17-18,11,17. Bannnari Amman Institute of Technology, Sathyamangalam, Erode district. Tamil Nadu. Paper title "Bulk arrival fixed batch service queue with unreliable server and with compulsory vacation, two stages of service, delay time"

11. International Conference on Pure and Applied Mathematics, SCSVMV 19-20 February,2018. Paper Title An $M/G^K/1$ queue with unreliable server and with compulsory vacation Two stages of service, Delay time.

12. International Conference on Pure and Applied Mathematics, SCSVMV 19-20 February,2018. Paper Title An $M/G^K/1$ with unreliable server, compulsory vacation and with delay time.

13. International Conference on Pure and Applied Mathematics, SCSVMV 19-20 February,2018. Paper Title An $M/G^K/1$ queue with unreliable server, Bernoulli vacation, Two stages of service and with Delay time.

14. International Conference on Applications of Fluid dynamics-ICAFD 2018, Organized by Department of Mathematics, The Vellor Institute of Technology, Vellore. December 13-15, 2018.. Paper title " Bulk Arrival, Fixed Batch Service Queue With Unreliable Server, Bernoulli Vacation and With Delay time ".

15. IInd International Conference on Pure and Applied Mathematics, Organized by Department of Mathematics, SCSVMV, Enathur. December 17-19,2018. Paper Title: The M/G^K/1 queue with unreliable server, with compulsory server vacation and two stages of service. (Kowsalya)

16. IInd International Conference on Pure and Applied Mathematics, Organized by Department of Mathematics, SCSVMV, Enathur. December 17-19,2018. Paper Title: The M/G^K/1 queue with unreliable server, with compulsory server vacation.

17. 8th International Conference on Mathematics and Computing (ICMC-2022) , held during Jan 06-08, 2022. Organized by VIT Vellore. Paper Title: The M/G$^{(1\ K)}$/1 queue with unreliable server, with Bernouli vacation.

18. 2nd International Conference of Undergraduate Students (ICUS-2023) , held during May20-21, 2023. SAU Center for Research and Innovative Learning, South Asian University, New Delhi. Paper Title: The M/G$^{(1\ K)}$/1 queue with unreliable server, with Compulsory vacation.

Seminars / Workshops / Trainings / Refresher courses attended*:*

More than 60 programs attended.

Extra curricular activities:

Acted as NSS Programme Coordinator of SCSVMV from Sep 2017 to June 2024.