



**DR J UDAYAGEETHA**  
**ASSISTANT PROFESSOR IN MATHEMATICS**

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## ACADEMIC QUALIFICATIONS

- PhD : "Contribution to the study of Batch Arrival Non-Markovian queueing system with mixed priority services and impatient customers", Pondicherry Engineering College, 2015-2019.
- GATE : All India Rank **236/3840** March 28, 2014
- TNSET: Cleared State Eligibility Test, 2012.
- M.PHIL. : "Chain Conditions on Prime submodules and Weakly Prime Submodules", CGPA **8.66/10**, Pondicherry University, 2011-2012.
- M.Sc. : CGPA **7.56/10**, Pondicherry University, 2009-2011
- B.Sc. : **University Gold Medalist - 94.7%**, Tagore Arts College, Pondicherry University, 2006-2009
- 12th Class : Sinnatha Government Girls Higher Secondary School, , **73%**, Pondicherry, 2006.
- 10th Class : Pandit Duraisamy Government High School, **94.2%**, Pondicherry, 2004.

## PROFESSIONAL EXPERIENCE

Total years of experience in teaching – 10 Years.

1. Assistant Professor, 2014 – Present, Perunthalaivar Kamarajar Arts College, Puducherry

**Responsibilities:**

- Head of the Department
  - Nodal officer - AISHE
  - Member – Cultural Committee
2. Assistant Professor, 2012 – 2014, Saradha Gangadharan College, Puducherry

## **SUBJECT TAUGHT**

Undergraduate level subjects covering Algebra, Analysis, Calculus, Ordinary Differential Equations and Programming using Scilab

## **SPECIALIZATION**

- Commutative Algebra
- Mathematical Modelling

## **FDP/ WORKSHOP/CONFERENCE/SEMINARS ATTENDED**

- National seminar on "Number Theory and Cryptography" 30.1.2012-31.1.2012 (2 days), Pondicherry University, Puducherry.
- International conference on "Commutative Algebra and Algebraic Entropy", 05.03.2012-09.03.2012 (5 days), Pondicherry University, Puducherry.
- "Web designing and Scripting" May 2015, ICTACT Pondicherry.
- "Workshop on Advanced Teaching Techniques" 17.08.2015 to 19.08.2015, Perunthalaivar Kamarajar Arts College, Puducherry.
- "International conference on Advanced Mathematical Modelling", 04.1.2016 to 07.1.2016, PSG Tech, Coimbatore.
- National conference on "Stochastic modeling and its applications" 04.01.2017 to 05.01.2017, Manonmaniam Sundaranar University, Thirunelveli
- UGC Sponsored 119th Orientation Programme, 02.11.2016 to 29.11.2016, HRDC Pondicherry University, Puducherry.
- Refresher course on Mathematics and Statistics, 01.08.2019 to 14.08.2019, HRDC, Pondicherry University, Puducherry.

## RESEARCH PAPER PRESENTED

### National Level

- "Analysis of Non-Markovian retrial queueing system with priority services, Collisions, Orbital Search, Working Breakdown, Startup/Close down time, Feedback, modified Bernoulli vacation and Balking", 4 th National Conference on Research and Development in Science, Engineering and Technology, March 23, 2018, St.Anne's College, Panruti, India.
- "Analysis Of Mixed Priority Retrial Queueing System With Two Way Communication, Bernoulli Vacation, Working Breakdown, Negative Arrival And Reneging", Quantitative techniques in research data analysis, Department of Agricultural Economics, , Annamalai university, September 19,20 2018

### International Level

- "Transient Solution of Priority Queueing System with Modified Bernoulli Vacation, Bernoulli Feedback and Reneging during Breakdown or Vacation Periods", International Conference on Science, Engineering and Technology May 2,3 2017, VIT, Vellore, India.
- "Analysis of non Markovian retrial queueing system with priority services, working breakdown, setup/close down time, Bernoulli vacation, reneging and balking", International Conference On Pure and Applied Mathematics, February 19,20 2018 SCSVMV University, Kanchipuram, India.

## PAPER PUBLISHED

- "Transient solution of  $M^{[x_1]}, M^{[x_2]}/G_1, G_2/1$  with priority services, modified Bernoulli vacation, Bernoulli feedback, breakdown, delaying repair and reneging" Applications and Applied Mathematics: An International Journal (AAM), Vol. 12, no. 2, pp: 633-657,2017 - **UGC care list Group II.**

- "Transient solution of  $M^{[x_1]}, M^{[x_2]}/G_1, G_2/1$  retrial queueing system with priority services, modified Bernoulli vacation, Bernoulli feedback, negative arrival, breakdown, delaying repair, setup time and balking" (IJSIMR), Vol. 5, no 12, 8-27, 2017.
- "Transient analysis of  $M^{[x_1]}, M^{[x_2]}/G_1, G_2/1$  retrial queueing system with priority services, collisions, orbital search, working breakdown, start up/close down time, feedback, modified Bernoulli vacation and balking" International Journal of Applied Engineering Research, vol. 13, no 11, 8783–8795, 2018. **UGC care list Group II.**
- "Analysis of mixed priority retrial queueing system with two way communication, collisions, working breakdown, Bernoulli vacation, negative arrival, repair, immediate feedback and reneging" Stochastic Modeling and applications vol.21, no. 2, 67-83, 2017 **UGC care list Group II.**
- "Analysis of preemptive priority retrial queueing system with starting failure, modified Bernoulli vacation with vacation interruption, repair, immediate feedback and impatient customers" International Journal of Mathematics and its Applications, vol.6, no. 1-e, 1013–1023, 2018
  - "Analysis of mixed priority retrial queueing system with two way communication and working breakdown" Journal of mathematical modeling, vol. 6, no. 2, 195-212. 2018, - **Scopus indexed" UGC care list Group II.**
- "Analysis of  $M^{[x_1]}, M^{[x_2]}/G_1, G_2/1$  retrial queueing system with priority services, working breakdown, non-persistent customers, modified Bernoulli vacation, emergency vacation and repair" International Journal of Statistics and Systems, vol 13, no 1, 23-39. 2018
- "Analysis of priority queueing system with working breakdown, repair, immediate feedback and Bernoulli vacation" Bulletin of pure and applied sciences section- e- mathematics & statistics. Vol. 38, no. 1, pp: 86-98.2019
- "Transient analysis of  $M^{[x_1]}, M^{[x_2]}/G_1, G_2/1$  retrial queueing system with priority services, working breakdown, start up/close down time, Bernoulli vacation, reneging and balking, Pakistan journal of Statistics and Operation Research, vol. 16, no. 1, 203-216. 2020 - **Scopus indexed, UGC care list Group II.**

- "Analysis of non-pre-emptive priority retrial queueing system with two way communication, Bernoulli vacation, collisions, working breakdown, immediate feedback and reneging, Int. J. Of Mathematics in Operational Research, vol. 16 no. 4, pp: 480-498, 2020 - **Scopus indexed" journal and Inder Science publishers, UGC care list Group II.**
- "Analysis of  $M^{[x_1]}, M^{[x_2]}/G_1, G_2/1$  priority retrial queueing system with working breakdown, Bernoulli vacation, admission control and balking" Journal of statistics & Management systems, vol. 24 no. 4, pp: 1-19. 2020 ESCI indexed" journal and "Taylor & Francis" publishers. **UGC care list Group II.**