

STAFF PROFILE – DR. S. YUVARANI



Dr. Yuvarani S currently serves as Assistant Professor in PG and Research Department of Mathematics, Auxilium College (Autonomous), Vellore. She has 6 years of teaching experience. She completed her B.Sc Mathematics and M.Sc. Mathematics at Auxilium College (Autonomous), Vellore. She completed her Ph.D in the year 2019 from VIT, Vellore. Her research interests include Retrial queues and Preemptive priority retrial queues. She has published many papers in international journals and conferences.

1. Name: Dr. (Mrs.) S. YUVARANI

2. Designation: Assistant Professor,
PG and Research Department of Mathematics,
Auxilium College (Autonomous), Vellore-632 006.

3. Qualification: M.Sc., M.Phil., Ph.D.,

4. Mobile number: 9629324010

5. E-mail id: yuvaranis@auxiliumcollege.edu.in

6. Teaching Experience: 5 years

7. Area of specialization: Queueing Theory

8. Positions held in Auxilium:

- ASQC Member (2022-till date)
- Co-ordinator of Spoken-Tutorial Project – IIT Bombay for Auxilium College (2021-2023)
- In charge of Mathematics Association
- Mentor for both UG and PG students (2019- till date)

9. Research Experience: 7 years

10. No. of Papers Published: 7 research articles

10. No. of Papers Presented in the National/ International/ Seminars/ Workshops/ Conferences: 7 research articles

11. No. of Seminars/Workshops/Conferences organized: 5

13. Membership in professional bodies(Descriptive):

A Life Time Member in

- Academia for Advanced Research in Mathematics Society (AARM Membership No. : F20173) (Reg. No. SRG/Vellore/96/2019)

14. Other bodies (Descriptive):

- NSF - International Eco Club Student Chapter (IECSC)

15. No. of Online Courses completed (Minimum of 4 Weeks): 1

9 weeks online course on “Introduction to Programming with MATLAB” offered by Vanderbilt University, through Coursera on 2020

19. Any Other:

- Served as Chair Person for the Paper Presentation session in the International Conference on Mathematical Sciences and Applications in Current Scenario (ICMA-2020), 27.01.2020 – 29.01.2020
- Guided 22 PG students for their project relevant to their interested area in Mathematics.

PUBLICATIONS:

- Yuvarani, S. and Saravananarajan, M. C., ‘Steady state analysis of unreliable Preemptive Priority Retrial Queue with feedback, two phase service under Bernoulli Vacation’, Advances in algebra and analysis, 2018, 425-435, Birkhäuser, Cham (Springer).
- Yuvarani, S. and Saravananarajan, M. C., ‘An Analysis of $M^{[X]}/G/1$ Preemptive Priority Retrial Queue with delayed repairs under Modified Bernoulli Vacation’, International journal of Pure and Applied Mathematics, 2017, Vol. 117 issue 2, 73-82. (Scopus).
- Yuvarani, S. and Saravananarajan, M. C., ‘Analysis of a Preemptive Priority Retrial Queue with Negative Customers, Starting failure and at most J Vacations’, International journal of Knowledge management in Tourism and management, 2017, Vol. 1(1),.76-109.

- Yuvarani, S. and Saravanarajan, M. C. ‘Analysis of a Preemptive Priority Retrial Queue with batch arrival and orbital Search, under Bernoulli Vacation’, International journal of Pure and Applied Mathematics, 2017, Vol. 113, Issue 9, pp.139-147. (Scopus).
- Yuvarani, S. and Saravanarajan, M. C. (2017) ‘Performance Analysis of a Preemptive Priority Retrial Queue balking, Optional re-service with Single Vacation and Service interruption’, IOP conference series: Materials science and Engineering, Vol. 263, doi:10.1088/1757-899X/263/4/042158.(Scopus).
- Rajadurai, P., Yuvarani, S. and Saravanarajan, M. C., “Performance analysis of Preemptive priority retrial queue with immediate Bernoulli feedback under working vacations and vacation interruption”, Songklanakarin journal of science and Technology, September 2016, Vol. 38, Issue 5, 507-520.(Scopus)
- Yuvarani, S. and Saravanarajan, M. C. ‘Analysis of a preemptive priority Retrial Queue with two Types of Customers, Single Vacation and Service Interruption’, Global Journal of pure and Applied Mathematics, 2015, Vol. 11 Issue 6, 4949-4968. (Scopus)

FDP’s/ Seminars/ Workshops/Webinars

Offline Programmes:

- Participated in Five day Workshop on MATLAB held at VIT University, Vellore, Tamil Nadu , June 22-26, 2015
- Have attended the five-day workshop on “MATLAB in Engineering Education” conducted by Dr. P. Venkataraman, Rochester Institute of Technology, USA, organized by School of Mechanical and Building Sciences, VIT- University, Vellore during 22-26 June 2015.
- Participated in one day Workshop on Latex for Technical Report Writing held at VIT University, Vellore, Tamil Nadu - on March-2015
- Have attended and participated in Faculty Development Programme on “Introduction to Rough Set Theory”, conducted by academic staff college of VIT-

University, Vellore - on 18th of December 2015.

- Participated in one day workshop on Solving Challenging experiments in Statistics for engineers using R-Software held at VIT University, Vellore, Tamil Nadu, - on December-2015
- Have attended a Two-day workshop on “SPSS & SMOS for Researchers”, conducted by Dr. Ramanan, professor and Head of department, presidency College, Chennai, organized by academic staff college of VIT- University, Vellore – during 23-24 of December of 2015.
- Have attended a One-day workshop on “MATLAB”, conducted by academic staff college of VIT- University, Vellore - on 25th of August 2016.
- Participated in one day workshop on Writing an Good Paper for an International Journal held at VIT University, Vellore, Tamil Nadu,-on October-2016
- FDP “Enriching and Enhancing the Effective of Teaching using 21st Century Skill Sets”- conducted by The Haskalah Academy- during June 5th – 7th, 2019.
- A National Conference on Teaching, Learning and Evaluation: Changes and Challenges- conducted by IQAC of Auxilium College (Autonomous), Vellore – during January 30th – 31st, 2020.
- A National Seminar on “Emerging Trends in applied Mathematics ETAM - 2023”- conducted by Department of Mathematics, Auxilium College (Autonomous), Vellore – on September 1st, 2023

Online Programmes:

- A State level workshop on “Basics of MATLAB”- conducted by K.S.Rangasamy College of arts and science, Tiruchengode – during 22nd April – 5th May, 2020.
- A National Faculty Development Program on “LaTeX and Scilab”- conducted by DKM College for women university in association with Spoken Tutorial Project, IIT- Bombay -during 30th April – 4th May, 2020
- A National level Seminar on "Recent research in Mathematics" – conducted by Department of Mathematics, Auxilium College (Autonomous) - during May 28th - 29th, 2020.

- A National Level FDP on “Evolution from Offline to Online Teaching”- conducted by Satish Pradan Dnyansadhana college, Thane, IQAC and FDP cell in association with Department of Information Technology University of Mumbai, Yashwantrao Chavan Maharashtra Open University Mumbai Regional Central and MICROSOFT - during 30th May – 3rd June, 2020.
- International FDP on “Evolving Best Teaching and Learning Practices in the Pandemic Era 2020”- conducted by The Board of Management, Auxilium College (Autonomous), Vellore- during 15th -21st June 2020.
- A National Level Webinar on Fuzzy Applications – conducted by St. Joseph ‘s College of Arts and Science (Autonomous), Cuddalore – on June 18th, 2020.
- “One Day Training Cum Orientation Programme” – conducted by Department of English and Foreign Languages, and Department of Linguistics, Bharathiar University, Coimbatore in association with TANSICHE- State – on September 30th, 2020.
- Webinar on “Emerging Research Topics in Mathematics” – conducted by Department of Mathematics, Auxilium College (Autonomous), Vellore 6 – on October 1st, 2021.
- Workshop on “Documentation and Data Management”- conducted by IQAC, Auxilium College (Autonomous), Vellore 6 – on October 29th, 2021.
- A National level Intercollegiate Online Faculty Development Program on Outcome Based Education- conducted by Internal Quality Assurance Cell of Auxilium College (Autonomous), Vellore in association with ipsr solutions limited – National – on November 22nd – 27th, 2021.
- Webinar on “Research Trends in Mathematics”- conducted by PG and Research Department of Mathematics, Auxilium College (Autonomous), Vellore 6 - on December 1st, 2021.
- Webinar on “Developing Mathematical Thinking”- conducted by PG and Research Department of Mathematics, Auxilium College (Autonomous), Vellore 6 – January 27th, 2022.
- International “Emerging trends in Pure and Applied Mathematics”- conducted by Department of Applied Sciences, School of Engineering in Association with Department

of Mathematical Sciences, School of Sciences, Tezpur University – International – on March 12th, 2022.

- Five Days National Level Faculty Development Program on Recent Advances in Mathematics – conducted by Department of Mathematics, School of Advanced Sciences, VIT, Vellore - National - during August 8th – 12th, 2022.
- FDP on Libre Office Suite Writer 6.3 – conducted by Spoken Tutorial IIT Bombay - on June 15th, 2022.
- FDP on LibreOffice Suite Calc 6.3 – conducted by Spoken Tutorial IIT Bombay - on June 17th, 2022.
- FDP on LibreOffice Suite Impress 6.3 – conducted by Spoken Tutorial IIT Bombay – on June 18th, 2022.
- National webinar on the topic “Green Campus Initiatives towards Sustainable Development”- conducted by The Internal Quality Assurance Cell (IQAC), Auxilium College (Autonomous)- on July 29th , 2023.
- National webinar on the topic “Publish and Progress” – conducted by The Internal Quality Assurance Cell (IQAC), Committee for Research Ethics, Publication and IPR & Library, Auxilium College (Autonomous) - August 26th, 2023.

Organizing Committee Member:

- VIT Mathematical Meet, VIT - University, Vellore
- National Science Day, VIT, Vellore
- 61th Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM-2016): An International Conference, VIT-University, Vellore
- International Seminar on Applied Mathematics held at Auxilium College on 19. 07. 2019.
- One week National Level Online Faculty Development Programme on R Language, 13th to 20th May 2020, PG and Research Dept. of Mathematics, Auxilium College (Autonomous), Vellore
- Online Course on CSIR-UGC NET/SET Mathematical Sciences and Basics of MATLAB, 3rd July to 10th July 2020, PG and Research Dept. of Mathematics,

Auxilium College (Autonomous), Vellore

- National Webinar on Applications of Mathematics, on 22nd December 2020.