

## Faculty Profile



Ms. Priya P. currently serves as Assistant Professor at the PG and Research Department of Mathematics, Auxilium College (Autonomous). She has 6 years of teaching experience. She completed her B.Sc., M.Sc., and M. Phil (Mathematics) at Auxilium College (Autonomous), Vellore. Currently Pursuing her Ph.D (Mathematics) at Auxilium College (Autonomous) affiliated to Thiruvalluvar University, Vellore. Her research interests include fractal and fractional differential equations, Mathematical modeling, Neural Networks, Numerical Analysis, Stability analysis, Optimal and adaptive control analysis, Bifurcation analysis. She has published papers in international journals and conferences. She also serves as a director of Health and fine arts Club.

1. Name : Ms. Priya P.
2. Designation : Assistant Professor,  
PG and Research Department of Mathematics  
Auxilium College (Autonomous),  
Vellore – 632 006.
3. Qualification : M.Sc., M. Phil., SET., (Ph.D)
4. Mobile number: 73 73008653
5. E-mail id : priyap@auxiliumcollege.edu.in
6. Teaching Experience : 6 years
7. Area of specialization : Differential Equation, Numerical Analysis
8. Position Held in Auxilium College:
  - Health and Fine Arts Club in charge (2018 to till date)
  - Mathematics Association (2022- till date)
  - Value Added Course - Instructor (2022-till date)
  - Online course in charge of Spoken-Tutorial Project – IIT Bombay.
  - Department ERP in charge
  - Mentor

9. Research Experience : 2 years
10. No. of Papers Published : 2 Research Articles
11. No. of Papers Presented in the National/  
International/ Seminars/ Workshops/ Conferences :4
12. No. of Seminars/Workshops/Conferences Organized: 10
13. Membership in professional bodies:
- A life time member in Academia for Advanced Research in Mathematics Society (AARM) (Reg. No. SRG/Vellore/96/2019)
14. Other bodies:
- NSF - International Eco Club Student Chapter (IECSC)
15. No. of Online Courses completed (Minimum of 4 Weeks) : 5
16. Any Other:
- Nearly 20 PG Students finished their project in their relevant subject areas under my guidance.
  - **Granted Qualification approval (to hold the post) from the Thiruvalluvar University:**  
No. TVU/R/Apprl.of.Qulfn./AC/2018/3467  
Date: 27.12.2018
  - **Computer Knowledge:**C, C++, Java, LATEX, MATLAB, R and SCILAB
  - **Technical qualification:**Completed Junior Grade in Typewriting (English)

## **PUBLICATIONS**

### **Publications in Journals**

- Caputo fractal fractional order of Soil Pollution model due to industrial and agrochemical- International Journal of applied and computational mathematics- Springer- Sep, 2022.
- Uniform Asymptotic Stability of Sir Model with Distributed Delay: A Case Study of Nipah Virus- Mathematical Statistician and Engineering Applications, ISSN: 2094-0343, Dec, 2022.

## **FDP's/ Seminars/ Workshops/Webinars**

### **National/ International/Seminars/Workshops/Conference/Congress/Symposium/**

#### **Endowment Lecture/ Conclave attended:8 (Offline)**

- National seminar on the History of Ancient Mathematics as Culled out from Tamil Epigraphs and Literature- PG and Research Department of Tamil, Sacred Hearts College, Tirupattur. 26<sup>th</sup> and 27<sup>th</sup> February, 2019.
- One day National level seminar on Recent Trends in Discrete Mathematics-D.K.M College for Women, Vellore. -25<sup>th</sup> January, 2019.
- International Symposium On Recent Trends in Mathematical Sciences - VIT University, Vellore-15 and 16, July, 2019.
- National level Faculty development program on “Artificial Intelligence and computer vision using MATLAB and SIMULINK-Auxilium College (Autonomous), Gandhi Nagar, Vellore -26<sup>th</sup> September 2019.
- National conference on applied Mathematics and its applications-PG and Research Department of Mathematics, Sacred Heart College, Tirupattur- 6<sup>th</sup> and 7<sup>th</sup> February, 2019.
- International Seminar on Applied Mathematics (ISAM-2019)-Auxilium College (Autonomous), Gandhi Nagar, Vellore-19<sup>th</sup> July, 2019.
- State Level Intercollegiate Paper Presentation-Auxilium College, Vellore-October 20, 2022.
- International **Symposium** on Mathematical analysis of fractals and dynamical system-2023 (ISMAFDS2023)”—School of advanced sciences, Department of Mathematics, VIT, Vellore- 24<sup>th</sup> and 25<sup>th</sup> August, 2023.

### **National/ International/Seminars/Workshops/Conference/Congress/Symposium/**

#### **Endowment Lecture/ Conclave attended: 49 (Online)**

- One week National Level online **Faculty Development Program** includes training in R Language- PG and Research Department of Mathematics, Auxilium College(Autonomous), Vellore in collaboration with Spoken Tutorial Project IIT

Bombay, Funded by National Mission of Education through ICT, MHRD, Govt. of India-  
13<sup>th</sup> -20<sup>th</sup> May 2020

- Online **Workshop** on Mathematical Analysis (MATANA 2020)-PG and Research Department of Mathematics, Loyola College (Autonomous), Chennai-8<sup>th</sup> -13<sup>th</sup> June 2020.
- Two days **Webinar** on “Linear Algebra”-PG and Research Department of Mathematics, National College (Autonomous), Trichy-9<sup>th</sup> - 10<sup>th</sup> June 2020.
- **Webinar** on “Graphs from Commutative Rings”-Department of Mathematics Presidency College(Autonomous), Chennai- 10<sup>th</sup> June 2020.
- **Webinar** on Introduction to the theory of Automata and its Applications- PG and Research Department of Mathematics, Queen Marys College(A), Chennai-11<sup>th</sup> June 2020.
- Five- Day **Webinar** series on “Outcome Based Education(OBE)”-IQAC, Sacred Heart College(Autonomous), Kochi, Kerala-11<sup>th</sup>,12<sup>th</sup>, 15<sup>th</sup>,16<sup>th</sup> and 17<sup>th</sup> June 2020.
- One day online **Webinar** on “Similarity Measure in Fuzzy Numbers and its Applications- Department of Science and Humanities, Dr. N. G. P Institute of Technology, Coimbatore-13<sup>th</sup> June 2020.
- International **webinar** on Emerging Trends in Graph Theory”-PG and Research Department of Mathematics, Sacred Heart College(Autonomous), Tirupattur-14<sup>th</sup> – 16<sup>th</sup> June 2020.
- National Level **Webinar** on “Studies on Fuzzy Topological Space”-PG Department of Mathematics(SF), Rajapalayam Raju’s College, Rajapalayam-15<sup>th</sup> June 2020.
- Two day International **webinar** on “Recent Advances in Mathematics &Covid -19”- Department of Mathematics and Statistics and IQAC, St. Joseph’s College for Women(A), Andhra Pradesh-15<sup>th</sup> -16<sup>th</sup> June 2020.
- One week**FDP** on “Advanced Materials Research”-Department of Science and Humanities, Bharat Institute of Engineering and Technology, Hyderabad-15<sup>th</sup> -19<sup>th</sup> June 2020.
- International **Web Conference** on “Advances in Mathematics”-PG and Research Department of Mathematics, St. Mary’s College(Autonomous), Thoothukudi-17<sup>th</sup> -19<sup>th</sup> June 2020.

- Three days Online **Faculty Development Programme** on “Mathematical Modeling in Biomedical Engineering-2020”-Department of science and Humanities, Dr. N. G. P. Institute of Technology, Coimbatore-18<sup>th</sup> -20<sup>th</sup> June 2020.
- The Mathematics Live **webinar** on “SAGEMATH- Greatest way of Understanding Math”-Department of Mathematics, PSNA College of Engineering and Technology, Dindigul-18<sup>th</sup> June 2020.
- National **Webinar** on Fuzzy Applications-PG and Research Department of Mathematics, St. Joseph’s College of Arts and Science (Autonomous), Cuddlore-18<sup>th</sup> June 2020.
- **Webinar** on “Basic Author Workshop Research Article Writing and Reference Management Using Mandalay”-Faculty of Science, Annamalai University in collaboration with ELESVIER-22<sup>nd</sup> June 2020.
- **Webinar** on Mathematical Modelling Perspectives for prediction of spread and control strategies for COVID- 19-Department of Mathematics, JIWAJI University, Gwailor-24<sup>th</sup> June 2020.
- National **Webinar** on “Coloring of Graphs”-Department of AS&H (Mathematics), Tirumala Engineering College, Andhra Pradesh-26<sup>th</sup> June 2020.
- National **Webinar** on “Fascinating world of Mathematics and its applications to blood flows”-Department of Mathematics, Siddartha College of arts and science, Vijayawada-27<sup>th</sup> June 2020.
- National **Webinar** on “Differential Equation and Applications”-Department of H&S (Engineering Mathematics), Malla Reddy Institute of Technology and Sciences, Secunderabad, Telegana-28<sup>th</sup> June 2020.
- One day**Webinar** on Recent Trends in Mathematics-Department of Computational Science and Humanities, Indian Institute of Information Technology, Kottayam, Kerala-29<sup>th</sup> June 2020.
- One Week International Online **Faculty Development Programme** on “Applications of Mathematics in Science and Engineering”-Department of Basic Science (Mathematics), Vishnu Institute of Technology, Bhimavaram-7<sup>th</sup> – 11<sup>th</sup> July 2020.
- National **Webinar** on “Queer Studies in India: Some Reflections”-Department of English associate with Voluntary Health Services, Chennai, an event registered with san Diego Pride, California, A.P.C. Mahalaxmi College For Women, Thoothukudi.-13<sup>th</sup> July 2020.

- National **Webinar** on “CSIR NET Mathematics”-PG and Research Department of Mathematics, Sengunthar arts and science college, Namakkal-15<sup>th</sup> July 2020.
- Three day **FDP** on “Experts of Research Methodology and Processes”-Research and Development, Tirumala Engineering College, Guntur, Andhra Pradesh.-20<sup>th</sup> – 22<sup>nd</sup> July 2020.
- International online **FDP** on” DIGITAL TOOLS FOR RESEARCHERS AND ICT ONLINE TOOLS IN TEACHING”-PG and Research Department of Mathematics Hindusthan innovative learning Hub, Hindusthan College of Arts and Science-Coimbatore-20<sup>th</sup> -24<sup>th</sup> July 2020.
- National level one week confederated online **Faculty Development Program** on “Orienting Applications and Conceptualized aspects of Sciences and Humanities” - Department of Humanities and Science, Balaji Institute of Technology and Science, Telangana-21<sup>st</sup> – 25<sup>th</sup> July 2020
- National **conference** on “Mathematical Analysis and Computing (NCMAC-2021)”- SreesevuganAnnamalai College-Department of Mathematics, Sivagangai-May 28, 2021.
- National level **Webinar** on “Mathematical Software workshop”-Universal Engineering College, Department of applied sciences and Humanities, Kerala-June 02-06, 2021
- **Webinar** on ‘How to handle online classes effectively?’-VIT University, School of social sciences and Language, Chennai-June 10, 2021.
- **Webinar** on “ Role of Preservatives in Nutritional Industry’-Nehru Arts and Science College, Centre for skills developments and Entrepreneurship cell, Coimbatore-July 03, 202.
- **Webinar** on “Emerging Research Topics in Mathematics”-Auxilium College, Department of Mathematics, Vellore-October 1, 2021.
- One day International **Webinar** on “Multiplicative inverse Functional Equations and their Applications”-St. Joseph’s College of Arts and Science (Autonomous), Cuddalore-October 29, 2021.
- **Workshop** on “Documentation and Data Management”-IQAC, Auxilium College, Vellore-October 29, 2021.
- **Webinar** on “Research Trends in Mathematics”-PG and Research Department of Mathematics, Auxilium College, Vellore-December 1, 2021.

- **Webinar** on “Amazing Analysis”-Department of Mathematics and Computer Application, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai-December 18, 2021.
- **Workshop** on “Numerical and Analytic techniques in Engineering problems”-Department of Mathematics, SRM University, Chennai-January 19-21, 2022
- **Webinar** on “Developing Mathematical Thinking”-PG and Research Department of Mathematics, Auxilium College, Vellore-January 27, 2022.
- **Webinar** on “ Graph theory emerging in the field of computer science”-PG and Research Department of Mathematics, St. Joseph’s College of Arts and Science, Cuddalore-March 23, 2022.
- **FDP** on LibreOffice Suite Writer 6.3-Spoken Tutorial IIT Bombay-June 15, 2022.
- **FDP** on LibreOffice Suite Calc 6.3-Spoken Tutorial IIT Bombay-June 17, 2022.
- **FDP** on Libre Office Suite Impress 6.3-Spoken Tutorial IIT Bombay-June 18, 2022.
- **Webinar** on Excellence in Teaching, Training and Research-Bharat Institute of Engineering and Technology, Centre for Research and Development in Education and Social Interpretation and Indian Ceramic Society, Hyderabad-July 23, 2022.
- **Webinar** on Innovations in Materials Processing: Importance of Ceramic Shell moulds for investment casting of Gas Turbines Components-Bharat Institute of Engineering and Technology, Centre for Research and Development in Education and Social Integration and Indian Ceramic Society, Hyderabad-August 20, 2022.
- Five days National Level **Faculty development program** on Recent advances in Mathematics -VIT University, Vellore-August 8-12, 2022.
- **Workshop** on “Graph Theory using Python-VIT University, Vellore-September 3, 2022.
- One Week International **FDP** on “Mathematics in Real, Applied and Computational Domains”-Department of Mathematics, School of Science and Humanities, Sathyabama Institute of Technology, Chennai- 3<sup>rd</sup> -8<sup>th</sup> July, 2023.
- International **webinar** on “Application of MATLAB”- Department of Mathematics and Statistics, St. Francis College, Koramangala, Bengaluru- July 13, 2023.
- One International **workshop** on “Exploring molecules Via Graph theory”- School of advanced sciences, Department of Mathematics, VIT, Vellore-8<sup>th</sup> September, 2023.

### **Online course studied in Coursera and NPTEL: 5**

1. Programming for everybody (Getting started with Python) Coursera, University of Michigan-**7 weeks**.
2. Introduction to ordinary differential Equation-Coursera, KAIST-**9 weeks**.
3. Introduction to Programming in MATLAB-Coursera, Vanderbilt University- **9 weeks**.
4. Ordinary and Partial differential equation with Applications-NPTEL, IIT Roorkee-**12 weeks**.
5. Introduction to Abstract and Linear Algebra-NPTEL, IIT Kharagpur-**8 weeks**.