

**GAYATRI VIDYA PARISHAD COLLEGE FOR DEGREE AND PG COURSES  
(Autonomous)**

**Profile of the Lecturer : Dr. V.Radhika**

---

Name of the Employee : Dr. (Smt). V.Radhika

Designation :Senior Assistant Professor in  
Mathematics

Qualification :M.Sc (Maths),Ph.D.,

Date of Birth :20-06-1981

Year of Joining :01-09-2003

Experience (Total) :20+years



- **Recognized as Research Guide in Andhra University 2023**

Attended one week workshop on “Statistics for Machine Learning” at gvpcoe on 18-12-23 to 22-12-2023

Attended and gave a lecture on topic of “Quasilinearization for Impulsive Fractional Differential Equations” at International Conference on Latest advances, Contributions and Applications in Nonlinear Analysis scheduled 13-3-2024 to 16-3-2024 at Gvpcoe

Dr.V.Radhika “Generalized Quasilinearization for PBVP through coupled lower and upper solutions of the IVP for hybrid Caputo fractional differential equation” published in Dynamics of Continuous, Discrete and Impulsive Systems, Series B 2023 page 309-329.

Radhika, V., “ Generalized Monotone Iterative Technique to PBVP for Hybrid Caputo Fractional Differential Equations”, Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical Analysis 27, 2020 pp 219-233, ISSN 1201-3390.

4<sup>th</sup>International conference on recent advances in mathematical sciences and applications attended and presented a paper on 21<sup>st</sup> to 24<sup>th</sup> December 2021 Gayatri Vidya Parishad -Prof V LAKSHMIKANTHAM Institute for Advanced Studies (GVP-LIAS)

Participated in one week online program faculty development program on recent trends in PDEs organized by Department of Mathematics, school of sciences, National Institute of Technology during November 2-6, 2020.

Participated in the webinar in Recent Developments in mathematics and its applications organized by Department of Mathematics Gitam institute of sciences and directorate of research and consultancy on 20<sup>th</sup> June 2020.

Participated in the online quiz on abstract algebra organized by Department of Mathematics, Sri GCSR college, GMR nagar, Rajam, Srikakulam District and secured 65% marks.

Participated in the webinar in Recent Advances in Mathematics and Covid-19 organized by the Department of Mathematics and Statistics and IQAC, St Joseph's College for Women (A), Vsp in association with UASMS AND SMSSMS on 15<sup>th</sup> and 16<sup>th</sup> June 2020.

Attended seminar on Thinking with Mathematical Models: Counting and Estimations, Equations, Optimization and Probability organized by Gayatri vidya parishad college for engineering and LIAS 16<sup>th</sup> March 2020.

Research Paper:

Radhika, V., "Generalized Monotone Iterative Technique to PBVP for Hybrid Caputo Fractional Differential Equations", Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical Analysis 27, 2020 pp 219-233, ISSN 1201-3390.

Attended lectures on "Basics of Fractional Calculus and Fractional Differential Equations" on 23<sup>rd</sup> December, 2019 organized by LIAS, Gayatri vidya parishad college of engineering, Kommadi, Vsp.

Attended seminar on "Mathematical Applications in Artificial Intelligence and Machine Learning" on 20<sup>th</sup> July, 2019 organized by Department of Computer Science and Engineering in association with GVPLIAS, Kommadi, Vsp.

Attended a seminar on pedestrian crowd dynamics model-using social behavior forces organized by Gayatri vidya parishad college for engineering and LIAS 16<sup>th</sup> March 2019.

Acting as a committee member of Two-day workshop On INTELLECTUAL PROPERTY RIGHTS Patents Inventions: Procedure, Practice and Protection 13<sup>th</sup> -14<sup>th</sup> March 2019 Organized by Gayatri Vidya Parishad College for Degree and PG Courses (Autonomous) Visakhapatnam-530003, Andhra Pradesh

Participated in Faculty Knowledge Sharing Program on 18<sup>th</sup> July, 2018 conducted by IBS ICFAI Business School.

**Participated in Faculty Knowledge Sharing Program on 30<sup>th</sup> July 2022 conducted by IBS ICFAI Business School.**

Presented a paper titled Generalized Monotone Iterative Technique for PBVP FOR Hybrid Caputo Fractional Differential Equations in International Conference on Recent advances in

Mathematical Sciences and Application (RAMSA-17) held during 19<sup>th</sup>-22<sup>nd</sup> of December 2017 at Gayatri Vidya Parishad College of Engineering (Autonomous) Madhurawada, Visakhapatnam.

Awarded Doctor of philosophy in Mathematics in November 2019. I have published 5 research publications in international journals up to till date. The details are given below.

Radhika, V., `` Generalized Monotone Iterative Technique to PBVP for Hybrid Caputo Fractional Differential Equations", Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical Analysis 27, 2020 pp 219-233, ISSN 1201-3390.

Vasundhara Devi, J., and Radhika, V., `` Quasilinearization for Hybrid Caputo Fractional Differential Equations", Dynamic Systems and Applications, Vol. 21, No. 4 (2012), pp.567 – 582, ISSN 1056-2176.

**Web of Science (Thomson Reuters Corporation):** Journal Impact Factor: 0.359 (2017); 0.362(5years). **Scopus** (2004-2016).

**Cites/Paper** (impact): 7.41, **Citations:** 7378, **H-index:** 37, **G-index:** 54.

Vasundhara Devi, J., and Radhika, V., `` Generalized Quasilinearization for Hybrid Caputo Fractional Differential Equations", Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical Analysis Vol. 19, (2012), pp.745-756, ISSN 1201-3390.

Radhika, V., ``Generalized Quasilinearization for PBVP for Hybrid Caputo Fractional Differential Equations", International Journal for Scientific Research and Development, Volume 5, Issue 5, 2017, ISSN 2321 - 0613.

Radhika, V., ``On QuasilinearizationMethod for Hybrid Caputo Fractional Differential Equations", International Research Journal of Advanced Engineering and Science, IRJAES 2017, ISSN2455-9024.

<b>1</b>	4 <sup>th</sup> International Conference on "Recent advances in Mathematical Sciences and Applications" (RAMSA-21)	Paper Presented	21th -24 <sup>th</sup> Dec 201	Gayatri Vidya Parishad -Prof V LAKSHMIKANTHA M Institute for Advanced Studies (GVP-LIAS)
<b>2</b>	Online Faculty Development Program (FDP) on " <b>Recent trends in PDEs: Theory &amp; Computations</b> " organized by the Department of Mathematics, School of Sciences, NIT Andhra Pradesh during November 2-6, 2020.	Participated	November 2-6, 2020	NIT Andhra Pradesh
<b>3</b>	Thinking with Mathematical Models: Counting and Estimations, Equations, Optimization and Probability	Participated	16 <sup>th</sup> march 2020	Gayatri Vidya Parishad -Prof V LAKSHMIKANTHA M Institute for

				Advanced Studies (GVP-LIAS)
4	International FDP on Importance of Mathematics in Science and Technology organized by mathematics division of department of basic science and Humanities GMR institute of Technology Rajam	Participated	25 <sup>th</sup> to 29 <sup>th</sup> June 2020	GMR institute of Technology Rajam
5	Recent Advances in Mathematics & Covid-19 organized by the Department of Mathematics and statistics & IQAC,	Participated	15 <sup>th</sup> & 16 <sup>th</sup> June 2020	St. Joseph's College for women(A) Visakhapatnam
6	The webinar on Recent Development in Mathematics and its application	Participated	20 <sup>th</sup> June 2020	GITAM institute of science
7	Impact of Covid-19 on environment on 5 <sup>th</sup> June, 2020 on the occasion of world environmental day organized	Participated	5 <sup>th</sup> June 2020	Gayatri Vidya Parishad college for Degree and PG Courses(A), Visakhapatnam
8	National Level webinar on Exploration of Physical Science and Engineering with Mathematics organized by Gayatri Vidya Parishad college for Degree and PG Courses(A), Visakhapatnam	Participated	6 <sup>th</sup> July 2020	Gayatri Vidya Parishad college for Degree and PG Courses(A), Visakhapatnam
9	Trends in Modelling and Computation organized in connection with the 97 <sup>th</sup> birth anniversary of Prof V Lakshmikantham held at Gayatri Vidya Parishad college of Engineering (Autonomous), Visakhapatnam	Participated	16 <sup>th</sup> – 17 <sup>th</sup> March, 2021	Gayatri Vidya Parishad college of Engineering (Autonomous), Visakhapatnam
10	Intellectual Property Protection and Innovation Management for Competitiveness of academia and Industries on 4 <sup>th</sup> & 5 <sup>th</sup> October, 2021 Gayatri Vidya Parishad college for Degree and PG Courses(A), Visakhapatnam	Participated	4 <sup>th</sup> & 5 <sup>th</sup> October, 2021	Gayatri Vidya Parishad college of Engineering (Autonomous), Visakhapatnam

S.No	Description of the Event	Attended	Date	Venue
11	Six Day FDP on "Effective Teaching Learning Paradigms through Pedagogical Innovations" Organized by Department of Mathematics, School of Science and Humanities, Sathyabama Institute of Science and Technology, Chennai	Participated	07 <sup>th</sup> - 12 <sup>th</sup> February, 2022	Sathyabama Institute of Science and Technology, Chennai

<b>12</b>	5 Day National Level Faculty Development Programme on "Recent Trends in Mathematics" Organized by Department of Mathematics Department of Mathematics & Statistics (Under DBT - Star College Scheme)	Participated	14 <sup>th</sup> to 18 <sup>th</sup> February, 2022	BHAVAN'S VIVEKANANDA COLLEGE OF SCIENCE, HUMANITIES & COMMERCE
<b>13</b>	One week Faculty Development Programme on "MATHEMATICS FOR A BETTER WORLDS"	Participated	21 <sup>st</sup> to 26 <sup>th</sup> March 2022	Gates Institute of Technology
<b>14</b>	International Conference on Recent Trends in Theoretical and Computational Mathematics(Virtual Mode)	Participated	24 <sup>th</sup> to 25 <sup>th</sup> Feb 2022	PSGR Krishnammal College for Women
<b>15</b>	Has Participated in the online quiz on "Abstract Algebra"	Online Quiz on Abstract Algebra		Sri GCSR College
<b>16</b>	Recent Advances in Nonlinear Functional Analysis and its Applications (ICRANFAA)-2022	Participated	29 <sup>th</sup> and 30 <sup>th</sup> Jan 2022	Department of Mathematics, Andhra University