Text Books Authored:

S.No.	Title	Publisher	ISBN No.	Edition
1	Mathematical Models In Ecology	IIP Iterative International Publishers	978-93-5747-359-0	2024

Patents Published:

S.No.	Patent Title	Patent application Number	Indian Patent Journal number	Journal Date
1	Dynamical system of Ammensal Relationship of Humans on Plants and Birds with Time Delay.	202241047489-A	37/2022	16/09/2022
2	Analyzing The Influence Of Delay Kernels On A Three-Species Ecological Model With Predatorcompetitor	202441027809-A	15/2024	12/04/2024
3	Non Contact Angle Measurement with the Help of Fuzzy Logic	202441033821-A	18/2024	03/05/2024

Knowledge sharing through Book Chapters:

S. No.	Title of the Book chapter	Name of the Authors	Book Details	ISBN No.	Volume & Chapter number
1	A Time Delay Model with One Ammensal and Two Mutualistic Species	NVSRC Murty Gamini & A V Papa Rao	Recent Studies in Mathematics and Computer Science http://bp.bookpi.org/index.php/bpi/catalog/book/233	13(15) 978-93-90149-51-3	Volume-3, Chapter -5,
2	Dynamics of a Prey and Two Predators with distributed Time Delay	NVSRC Murty Gamini & A V Papa Rao	IIP Book Series "IIPV3EBS22_G4 Tends in Contemporary Mathematics	E12S22G12-2AURSAU28	Volume-3, 2023
3	Hopf Bifurcation and Harvesting Analysis in Prey and Two Predators Model	NVSRC Murty Gamini & A V Papa Rao	IIP Book Series "IIPV3EBS22_G11 Tends in Contemporary Mathematics	E12S22G12-2AU5	Volume-3, 2023

Knowledge sharing through Conferences:

S.No.	Title of the paper	Name of the Conference	Dates	Organisation
1	Delay Dynamics of a Prey, Predator and Competitor Model	3rd International conference on Recent Advances in Mathematical Sciences and Applications (RAMSA-17)	19-22 December 2017	Gayatri Vidya Parishad-Prof V.Lakshmikantham Institute for Advanced Studies (GVP-LIAS) & GVP College of Engineering, Visakhapatnam
2	Three species Ecological Model with Harvesting Efforts	10th International Conference on Recent Development in Engineering Science, Humanities and Management	24th December 2017	
3	A Three Species Delay Model With A prey, Predator and Competitor	Essence Of Mathematics And Engineering Applications-18 (EMEA-18)	14-15 December 2018	KL University, Vijayawada
4	Stability analysis of a Time Delay Three species Ecological Model	2nd International conference on Pure & Applied Mathematics(ICPAM-2018)	17-19, December 2018	SCSVMV University, Kanchipuram
5	A Distributed Delay Model with a prey predator and competitor	International Conference On Science, Technology And Management (Icstm-2019)	30th March,2019	Sri Durga Malleswara Siddhartha Mahila kalasala, Vijayawada
6	Mathematical Analysis of Ecological Model	International Conference On Mathematical Sciences And Applications (ICMSA-2019)	9th to 11th August, 2019	Department of Mathematics, School of Technology, Gitam University, Hyderabad
7	A Distributed Time Delay Model of Single Prey and Two Predators	XXVIIIth Congress of APTSMS & National Conference on Recent Trends in Pure and Applied Mathematics (NCRTPAM-2019)	6th to 8th December 2019	Department of Mathematics, Rashtriya Sanskrit Vidyapetha, Tirupathi
8	A Distributed Delay Model of One Ammensal on Two Commensal Species	International Conference On Advances in Higher Mathematics, Mathematical Sciences and Mathematical Modelling	20th to 22nd December 2019	Calcutta Mathematical Society, Calcutta.

		(ICAHMMSMM-2019)		
9	A Distributed Delay model of One Ammensal on Two Mutualistic Species	13th International Conference On Mathematical And Statistical Applications in Sciences and Engineering(MSAST-2019)	21st to 23rd December, 2019	Institute for Mathematics, Bioinformatics, Information Technology and Computer Science(IMBIC), Calcutta,
10	*A Distributed Delay Model of One Ammensal On Two Mutualistic species*	International Conference on Physical Science and Technology (ICPST-2022) Collaboration with IFERP	21st to 22nd May, 2022	CMR College of Engineering and Technology and Vishwatmak Om Gurudev College of Engineering,
11	Analytical investigation of a Three Species Syn-Ecological Model with Ammensalism and Commensalism	International Conference on Mathematical Modelling	27th to 28th January, 2023	The Department of Mathematics, Bharathiar University, Coimbatore
12	A Study of Hopf Bifurcation analysis in three species Ecological Model with Delay	Interdisciplinary Conclave: 4th International Conference on Nanomaterials & Technologies (CNT-2024)	2nd to 3rd February, 2024	The Department of Humanities & Sciences. Vidya Jyothi Institute of Technology Autonomous, Hyderabad
13	A Hopf Bifurcation Analysis of Three Species Ecological Model with Distributed Time Delay	International Conference on Mathematical Challenges and Novel Applications - 2024	21st to 22nd March, 2024	Ayya Nadar Janaki Ammal College, Sivakasi, Ramco Institute of Technology, Rajapalayam and The Standard Fireworks Rajaratnam College for Women, Sivakasi
14	Dynamics and Hopf bifurcation of a Prey Predator and amensal Model with time Delay in Predator species	International Conference on Connecting Theory and Practice in Mathematics, Statistics and Data Science	15th to 17th March, 2025.	**The Department of Mathematics, School of Advanced Science, VIT-AP University in collaboration with The Department of Mathematics and Statistics, Faculty of Science and Technology, The university of West Indies, St. Augustine, West Indies**

Research Publications:

S. No.	Title of the Paper	Name of the Authors	Journal Details	Journal index	Volume & page numbers	Impact Factor
1	Three species Ecological Model with Harvesting Efforts	NVSRC Murty Gamini & A V Papa Rao	International Journal of Advance Research in Science and Engineering	--	Volume-6, Issue – 12, December-2017. 1402-1412	2.83
2	Dynamical Behaviour of Prey, Predators Models With Time Delay	NVSRC Murty Gamini & A V Papa Rao	International Journal of Mathematics and its applications	Listed in Google Scholar	Volume-6, Issue – 3, 2018. 27-37	
3	Stability Analysis of a time delay Three Species Ecological Model.	NVSRC Murty Gamini & A V Papa Rao	Internation journal of Recent Technology and Engineering(IJRTE) **Blue Eyes Intelligence Engineering and Sciences Publication** ISSN No. 2277-3878	SCOPUS (H-27)	Volume-7, Issue – 6S2, April-2019. 839-845	5.11
4	A Distributed Delay Model with a prey, predator and competitor.	NVSRC MURTY GAMINI & Dr. A V PAPA RAO	Presented at ICSTM-2019 & Published in International journal of Recent Technology and Engineering(IJRTE) ISSN:2277-3878	SCOPUS	Volume-7, Issue – 6S5, April-2019. 1992-1999	5.11
5	Stability Analysis of one Prey and Two Predators Model	B. Sita Ram Babu , Paparao. A. V , N. V. S. R. C. Murty Gamini	International journal of Recent Technology and Engineering(IJRTE) ISSN:2277-3878	SCOPUS	Volume-8, Issue – 2S11, September-2019. 3658-3663	5.11
6	Prey Predator Dynamics in Three Species Ecological Model	A V Papa Rao & NVSRC Murty Gamini	IOP publishing - Journal of Physics-IOP Publishing ISSN No. 1742-6596	SCOPUS (H-91)	Volume-7, Issue – 1344, November-2019. 1-8	2.44
7	Mathematical Analysis of Ecological Model	NVSRC Murty Gamini & A V Papa Rao	Journal of Applied Physics AIP PUBLISHING ISSN No.1551-7616	SCOPUS (H-80) & ESCI	Volume-2246, Issue – 1, July-2020. 020066-1 to 020066-8	2.286
8	Dynamics of Three Species Ecological model with Distributed Type Delay	NVSRC Murty Gamini & A V Papa Rao	International Jounrnal of Ecology and Development CESER PUBLICATIONS ISSN NO.0973-7308	SCOPUS & ESCI	Volume-34, Issue – 4, 2019. 134-144	3.567
9	Global Stability	A V Papa Rao	Advances and	ESCI	Volume-19,	-

	Analysis of Single Prey and Two Predtors Model	& NVSRC Murty Gamini	Applications in Mathematical sciences, mili publications ISSN 0974-6803		Issue – 3, January-2020. 159-170	
10	Hopf Bifurcation Analysis In Three Species Ecological Model	NVSRC Murty Gamini & A V Papa Rao	South East Asian Journal of Mathematics and Mathematical Applications ISSN 0972-7752	SCOPUS (H-3)	Volume-16, Issue – 1(A), April-2020. 35-42	-
11	A Distributed delay Model with One Ammensal and Two Mutualistic Species	NVSRC Murty Gamini & A V Papa Rao	Journal of Engineering, Computing and Architecture (JECA) ISSN NO. 1934-7197	UGC Care listed	Volume-10, Issue –4, 2020. 49-59	6.1
12	A Distributed delay Model with One Ammensal and Two Mutualistic Species	NVSRC Murty GaminI & A V Papa Rao	International Journal of Tomography and Simulation(IJTS) CESER PUBLICATIONS ISSN 2319-3336	SCOPUS	Volume-34, Issue – 1, January-2021. 66-78	0.31
13	Mathematical analysis of One Ammensal and Two Mutualistic Species	NVSRC Murty Gamini & A V Papa Rao	Imanager's journal on mathematics (JMAT) ISSN NO. 2277-5137	Google Scholar, iCi & Scilit	Volume-8, Issue – 4, October-2019. 19-31	2.273
14	A Distributed Time Delay Model Of Single Prey And Two Predators	A V Papa Rao & NVSRC Murty Gamini	Lino JournaL ISSN NO.0211-2574	SCOPUS (H-3)	Volume-11, Issue-03, March-2021.	0.107
15	A Distributed Delay Model of One Ammensal On Two Mutualistic Species"	NVSRC Murty Gamini & A V Papa Rao	Journal of Algebraic Statistics	Web of Science	Volume-13, Issue – 3, 2022. 1968-1975	
16	A Distributed Delay Model Of One Ammensal On Two Commensal Species	NVSRC Murty Gamini & A V Papa Rao	Calcutta Mathematical Society ISSN NO. 2231-5314	UGC Listed	Volume:18, Page 195-204, 2022.	
17	Kernel Dynamics in Three Species	NVSRC MURTY GAMINI &	African Journal of Biological Sciences	Scopus indexed	Volume-6, Issue – 5, May-2024.	0.8

					6438-6449	
	Ecological Model with Distributed time delay	Dr. A V PAPA RAO			6438-6449	
18	Instability Tendencies in A Three Species Ecological Model with Distributed Time Delay	NVSRC Murty Gamini & A V Papa Rao	Indian Journal of Science and Technology	UGC Care Listed Web of Science	Volume:17 Issue:34, Pages:3598-3608 August-24, Print: 0974-6846, Electronic: 0974-5645	

S.No.	Journal	Web Link
1	**IJED**	**http://www.ceser.in/ceserp/index.php/ijed/article/view/6313**
2	**Mili publications**	**https://www.mililink.com/issue_content.php?id=59&iId=363&vol=19&is=3&mon=January&yer=2020&pg=145-209**
3	**seajmams**	**https://rsmams.org/journals/articleinfo.php?articleid=449&tag=seajmams**
4	**JECA**	**https://drive.google.com/file/d/1PtthEeYT6Spa6iD6wY1H2yplcaLyywtU/view**
5	**ijts**	**http://www.ceser.in/ceserp/index.php/ijts/article/view/6439**
6	**IMANAGER'S**	https://doi.org/10.26634/jmat.8.4.17131
7	**African Journal of Biological Sciences**	https://doi.org/ 10.33472/AFJBS.6.5.2024. 6438-6449
8	Indian Journal of Science and Technology	https://doi.org/10.17485/IJST/v17i34.2172