


**Aditanar College of Arts and Science
Virapandianpatnam – 628216
Tiruchendur
Bio - Data**

Name of the Department	: Mathematics	
Name of the faculty member	: Dr. K. BAGEERATHI	
Qualification	: Ph.D	
Present Designation	: Assistant Professor	
Vidwan id	: 183288	
Residential Address	: W/o Dr. C. SIVAMURUGAN, A-73E, AEI Staff Quarters, Kumarapuram, Tiruchendur- 628215	
Contact Nos.	: 9442323643, 9487036439	
Email	: bageerathi14@gmail.com	
Gender	: Female	
Community	: Hindu Nadar	
Date of Birth and Age	: 14.03.1982 & 41	
Date of joining	: 03.07.2013	
Date of Retirement	: 14.03.2042	

I. Particulars of Educational Qualification

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B. Sc	Mathematics	2002	Women's Christian College, Nagercoil	ManonmaniamSundaranar University, Tirunelveli.	77.59	First
PG	M. Sc	Mathematics	2004	Vivekananda College, Agasteeswaram.	ManonmaniamSundaranar University, Tirunelveli	81.75	First
	M. Phil	Mathematics	2006	Aditanar College of Arts and Science, Tiruchendur.	ManonmaniamSundaranar University, Tirunelveli.	75	First
Ph.D.	Ph.D	Mathematics	2012	Aditanar College of Arts and Science, Tiruchendur.	ManonmaniamSundaranar University, Tirunelveli.	Awarded	

II Additional Qualification

: -

NET/SLET

III Title of Ph.D. Thesis

: A Study on Fuzzy Closed Sets, Fuzzy Boundary and Functions

IV Faculty/Discipline/Subject in which Ph.D. was awarded

: **Mathematics**

List of Publications

: (Details Attach separate sheet)

No. of Candidates Completed Ph.D. under your Guidance :

6 (Details Attach separate sheet)

No. of candidates doing Ph.D. under your Guidance :

3 (Details Attach separate sheet)

V Academic Experience:

Name of the College	Whether Govt/Aided/S.F.	Designation	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Pioneer Kumarasamy College, Nagercoil	S.F.	Lecturer	15.01.2006	16.07.2006		6	15
GovindammalAditanar College for Women	S.F.	Assistant Professor	17.07.2006	02.07.2013	6	11	25
Aditanar College of Arts and Science, Tiruchendur	Aided	Assistant Professor	03.07.2013	-	10	3	15
					17	9	24

VI Administrative/other Experience : Nil

VII Other Relevant Information :

- ❖ Research supervisor from 2016 to till date
- ❖ Principal investigator – UGC Minor Research Project (Completed) 2014 to 2016
- ❖ Member of numismatics club
- ❖ Acting as doctoral committee member
- ❖ Life member of Indian Mathematical Society
- ❖ Student Advisor-2016-2019, 2020-2023

Number of research papers published per teacher in the Journals

Title of paper	Name of the authors	Name of journal	Year of publication	ISSN number	Is it listed in UGC Care list
On fuzzy γ -boundary and γ -semi boundary,	Dr. K. Bageerathi ,	International Journal of Scientific & Engineering Research	Vol. 4(9) September 2013.	2229-5518	
Generalized fuzzy feebly boundary by the complement function C,	T. Thangam and Dr. K. Bageerathi ,	Journal of Environmental Science, Computer Science and Engineering & Technology	Vol 3(2), March 2014, 847-857.	2278-179X (E)	
On fuzzy γ -semiopen sets and fuzzy γ -semi closed sets in fuzzy topological spaces	R. Usha Parameswari and Dr. K. Bageerathi	IOSR Journal of Mathematics	Vol 7(1), June 2013, 63-70	2278-5728	
A comparative study on Boundary concept in different aspects	Dr. K. Bageerathi	International Journal of Mathematical Archive	Vol 5(No. 8), April 2014, 8-14	2229-5046	
On fuzzy γ - pre open sets and fuzzy γ - pre closed sets in fuzzy topological spaces	Dr. K. Bageerathi	International Journal of Innovative and Applied Research	Vol 2(5), 2014, 55-64	2348-0319	
Generalization of fuzzy b-open sets in fuzzy topological spaces	Dr. K. Bageerathi	Aryabhata Journal of Mathematics and informatics	Vol. 07, Issue – 01, Jan-July, 2015	2394-9309	
Generalization of fuzzy b-boundary	Dr. K. Bageerathi	International Journal of Engineering & Scientific Research	Vol. 03, Issue – 10, October 2015	2347-6532	
Generalization of Fuzzy Semi Boundary in	T. Thangam and Dr. K. Bageerathi	International Journal of Applied Research	2015; 1(11): 806-812	2394-7500	

Fuzzy Bitopological Spaces					
On Soft B-Open Sets in Soft Bitopological Space	N. Revathi and Dr. K. Bageerathi	International Journal of Applied Research	2015; 1(11): 615-623	2394-5869	
On Weak forms of Continuous and Irresolute functions in Fuzzy Bitopological Spaces	T. Thangam and Dr. K. Bageerathi	International Journal of Ultra Scientist of Physical Sciences	Vol. 27(3)A, 205-216(2015).	2231-346X	
On neutrosophic semi- open sets in Neutrosophic topological spaces	P. Iswarya and Dr. K. Bageerathi	International Journal of Mathematics Trends and Technology	Vol. 37, No. 3, september 2016, 214-223	2231-5373	
Semi # generalized closed sets in topological spaces	S. Saranya and Dr. K. Bageerathi	International Journal of Mathematics Trends and Technology	Vol.36,No.3,A ugust2016,140-144	2231-5373	
On Neutrosophic Feebly open sets in Neutrosophic topological spaces	P. Jeya Puvaneswari and Dr. K. Bageerathi	International Journal of Mathematics Trends and Technology	Vol. 41, No. 3, January 2017, 230- 237.	2231-5373	
pre # generalized closed sets in topological spaces	M. Jeya Chitra and Dr. K. Bageerathi	International Journal of Mathematics Trends and Technology	Vol. 8, No. 1, January 2017, 65- 72.	2231-5373	
Generalization of Fuzzy semi open sets in Fuzzy Bitopological spaces	T. Thangam and Dr. K. Bageerathi	International Journal of Mathematical Archive	8(4) April 2017,121-128	2229-5046	
Some Properties of Semi # generalized open sets in topological spaces	S. Saranya and Dr. K. Bageerathi	International Journal of Mathematical Archive and its Application	Vol. 5, No. 1-C, 2017, 349-357	2347-1557	YES
A New Closure and Interior operators via ν -Closed and ν -open sets	S. Saranya and Dr. K. Bageerathi	International Journal of Mathematics Trends and Technology	Vol. 53 (6), 2018.	2231-5373.	
On Characterization of ν - open sets in topological spaces	S. Saranya and Dr. K. Bageerathi	International Journal of Mathematical Archive and its Application	8(12), 2017, 140-144	2229-5046.	YES
Connectedness And Compactness Via	S. Saranya and Dr. K. Bageerathi	Mathematical Sciences International	Volume 7 Issue 2	2278-8697	YES

V-Open Sets In Topological Spaces,		Research Journal			
Generalization of Fuzzy boundary in fuzzy bitopological spaces	T. Thangam and Dr. K. Bageerathi	Int. J. Math. And Appl.,	6(2-B)(2018), 287-294	2347-1557	
On Generalization of pairwise Fuzzy connected	T. Thangam and Dr. K. Bageerathi	JETIR	February 2019, Volume 6, Issue 2	2349-5162.	
A Study on neutrosophic semi-Generalized closed sets in Neutrosophic topological spaces	P. Iswarya and Dr. K. Bageerathi	JETIR	February 2019, Volume 6, Issue 2	2349-5162	
Neutrosophic Semi-connected Spaces via Neutrosophic Semi-open Sets	P. Iswarya and Dr. K. Bageerathi	Global Journal of Pure and Applied Mathematics	Volume17, Number2(2021), pp.399-410	0973-1768	
A Study on neutrosophic Frontier and neutrosophic semi Frontier in Neutrosophic topological spaces	P. Iswarya and Dr. K. Bageerathi	Neutrosophic sets and Systems	Vol. 16, 2017,6-15	2331-6055.	
(1, 2)* Soft B-continuous and b- closed map	N. Revathi and Dr. K. Bageerathi	Asian Journal of Mathematics and computer Research	2017, 17(2): 111-122	2395-4205	
Some properties of (1, 2)* Soft B-connected spaces	N. Revathi and Dr. K. Bageerathi	International Journal of Algorithms and Computations	2017, 49(2): 119-127	2395-4205	
On Neutrosophic Feebly Continuous Functions	P. Jeya Puvaneswari and Dr. K. Bageerathi	Journal of Emerging Technologies and Innovative Research	Vol. 06, No. 2, January 2019, 713- 723	2349-5162	YES
Some New Operators in Neutrosophic Topological Spaces	K. Bageerathi and P. Jeya Puvaneswari	Journal of Computer and Mathematical Sciences	May 2019, Vol. 10(5), 1004-1010	2319-8133	
Neutrosophic Feebly Connectedness and Compactness	Dr. K. Bageerathi and P. Jeya Puvaneswari	IOSR Journal of Polymer and Textile Engineering	May-June. 2009, Vol 6(3), 07-13.	2348-019X.	
Neutrosophic Feebly Normal Spaces	P. Jeya Puvaneswari, Dr. K. Bageerathi and P.Selvan	International journal of Communication and Media Studies	June2019, vol 9(3), 119-130	2250-0014.	

On Neutrosophic Feebly Frontier in Neutrosophic Topological Spaces	P. Jeya Puvaneswari and Dr. K. Bageerathi	International Journal of Mathematics Trends and Technology	April 2019, Vol 65, 20-25.	2231-5373.	
Preserving Neutrosophic Feebly Closed sets	K. Bageerathi and P. Jeya Puvaneswari	Journal Of Ultra Scientist Of Physical Sciences,	2019, Vol. 31(5), 43-52	2319-8044	
Extremally Disconnected Space in Soft Bitopological Spaces	N. Revathi and Dr. K. Bageerathi	International Journal of Advanced Scientific Research and Management	April 2019, Vol. 4(4), 51-56.	2455-6378.	
Contra Pre* Generalized Continuous Functions in Topological Spaces	M. Jeyachitra and Dr. K. Bageerathi	Journal of Emerging Technologies and Innovative Research	Vol. 6(5), 628-633	2349-5162	
Some Functions Concerning Neutrosophic Feebly Open & Closed Sets	P. Jeya Puvaneswari and K.Bageerathi	International Journal of Scientific Research and Reviews	April – June.,2019, 8(2), 1546-1559	2279-0543 (E)	
A Study on Neutrosophic Generalized Semi closed sets in Neutrosophic Topological Spaces	P. Iswarya and K.Bageerathi	Journal of Emerging Technologies and Innovative Research	February 2019, Volume 6, Issue 2, 452-457.	2349-5162	
Regular Spaces Associated with Neutrosophic Feebly Open Sets,	P. Jeya Puvaneswari and K.Bageerathi	Journal of Applied Science and Computations	Vol. VI, Issue VI, June 2019, 2328-2340	1076-5131	
Generalization of Pairwise Fuzzy connectedness	T. Thangam and K.Bageerathi	Journal of Emerging Technologies and Innovative Research	February 2019, Volume 6, Issue 2, 154-158	2349-5162	
Neutrosophic Locally Feebly Closed Sets	P. Jeya Puvaneswari and K.Bageerathi	International Journal of Research and Analytical Reviews	Volume 6, June 2019,165-173	2349-5138	
Neutrosophic Feebly Separated Sets	P. Jeya Puvaneswari and K.Bageerathi	Journal of Emerging Technologies and Innovative Research	Volume 6, June 2019, 329-337	2349-5162	
Semi generalized b-strongly b*-open sets in Topological Spaces	P. Selvan and K. Bageerathi	International Journal of Mathematical Archive	10(7), 2019, 37-42	2229-5046	
On p*gp-connectedness and p*gp-compactness	M. Jeyachitra, K. Bageerathi	The International journal of analytical and experimental modal analysis	Volume XII, Issue III, March/2020, 2312 – 2323	0886-9367	

Separation properties on p^*gp -closed sets in topological spaces	M. Jeyachitra, K. Bageerathi	Journal of Engineering, Computing and Architecture	Volume 10, Issue 3, 2020, 332-345	1934-7197	
On p^*gp -Locally Closed Sets in Topological Spaces	M. Jeyachitra, K. Bageerathi	J. Math. Comput. Sci.	10 (2020),No. 4, 1167-1175.	1927 -5307	
Some Functions Via p^*g -closed sets	Jeyachitra, M & Bageerathi. K	Journal of Interdisciplinary Cycle Research	Vol. XII, Issue VII, pp.1291-1303	00222-1945	YES
Pre*generalized Pre Regular Spaces and Pre*generalized Pre Normal Spaces'	Jeyachitra, M & Bageerathi, K	Aegaeum Journal	Vol. 8, Issue 7, pp. 1666-1672	0776-3808	YES
Functions associated with p^*gp -open sets'	Jeyachitra, M & Bageerathi, K	Science, Technology and Development Multidisciplinary Journal	Vol. IX, Issue VII July, pp. 358-376	0950-0707	YES
Functions Associated with v -open sets and v -Closed sets	K. Bageerathi, S. Saranya	International Journal of Analytical and Experimental Model Analysis	Volume XIII, Issue Xii, Dec 2021.	0886-9367	YES
Minimal of v -open sets and v -closed sets	K. Bageerathi, S. Saranya	International Journal of Advanced Research I Engineering and Technology (IJARET)	Volume II, Issue II, Nov – 2020, pp.2382-2386	0976-6499.	
Some Properties of semi # Generalized open sets in Topological Spaces	K. Bageerathi, S. Saranya	International Journal of Mathematics and its Applications	Vol.5, Issue 1-C(2017), 349-357	2347-1557	
An application for decision making problem with neutrosophic topology	Iswarya P and Bageerathi. K	The International Journal of Analytical and Experimental Modal Analysis	Vol. XIV, Issue I, pp. 1017 - 1025	0886 - 9367	YES
Few categories of neutrosophic semi-connected spaces'	Iswarya P and Bageerathi.K	The International Journal of Analytical and Experimental Modal Analysis	Vol. XIV, Issue XI, pp. 1364 - 1370	0886 - 9367	YES

Book chapters or Papers published in national/international conference/Seminar/ workshop proceedings

Title of the Chapter/paper	Name of the authors	Title of the Book/Proceedings of the conference	Name of the conference	National/International	Year of publication	ISBN number of Book/proceedings	Publisher /Affiliating Institute at the time of Publication
On Nano α -regular open sets in Nano topological spaces	M. Muthulakshmi and Dr. K. Bageerathi ,	proceedings of the two days National Seminar		National			Department of Mathematics, M. D. T Hindu College, Tirunelveli.
Some New sets using $(1, 2)^*$ - Soft B- closed Sets in Soft Bitopological Space, organized by the on	N. Revathi and Dr. K. Bageerathi	Proceedings on National Seminar on Mathematics and its applications scenario in 21 th century	Mathematics and its applications scenario in 21 th century	National	February 28 th , 2017.		Department of Mathematics, A. P. C Mahalakshmi College, Thoothukudi on February 28 th , 2017.
$(1, 2)^*$ Soft B- Locally closed sets in soft Bitopological spaces,	N. Revathi and Dr. K. Bageerathi ,	Proceedings on Conference on Emerging Trends in Mathematical Strategies	Conference on Emerging Trends in Mathematical Strategies	International	Feb 26, 2018		Sarah Tucker College, Tirunelveli.
Regular Spaces Associated with SGBSB*- Open sets	P. Selvan and K. Bageerathi	Proceedings on National Seminar on "Recent Trends in Pure and Applied Mathematics	Recent Trends in Pure and Applied Mathematics	National	on March 9-10, 2020. P. No: 241-248.		Department of Mathematics, Rani Anna Govt. College for women, Tirunelveli
Semi-pre Separation Axioms on Invertible and Semi-pre Invertible Spaces	S. Manicka Vinayagam and K. Bageerathi	Proceedings on National Seminar on "Recent Trends in Pure and Applied Mathematics "	Recent Trends in Pure and Applied Mathematics "	National	on March 9-10, 2020. P. No: 241-248.		Department of Mathematics, Rani Anna Govt. College for women, Tirunelveli
Neutrosophic Generalized b^* closed sets in Neutrosophic Topological spaces	S. Muthulakshmi and K. Bageerathi	Proceedings on National Seminar on "Recent Trends in Pure and Applied Mathematics "	Recent Trends in Pure and Applied Mathematics "	National	on March 9-10, 2020. P. No: 241-248.		Department of Mathematics, Rani Anna Govt. College for women, Tirunelveli

“Generalized semi b*closed set in Topological Spaces”	G. Janaki and K. Bageerathi ,	Proceedings on National Seminar on “Recent Trends in Pure and Applied Mathematics ”	Recent Trends in Pure and Applied Mathematics ”	National	on March 9-10, 2020. P. No: 241-248.		Department of Mathematics, Rani Anna Govt. College for women, Tirunelveli
More Notes on separation Axioms via v-open sets,	K. Bageerathi and S. Saranya,	Proceedings of the International Virtual Conference in current Scenario in Modern Mathematics (ICCSMM-2022) on,	current Scenario in Modern Mathematics (ICCSMM-2022)	International	4 February 2022	ISBN: 978-81-948552-9-3.	Department of Mathematics, Aditanar College of Arts and Science, Tiruchendur.
Maximal of v-open sets and v-closed sets	K. Bageerathi and S. Saranya,	Proceedings of the International Virtual Conference in current Scenario in Modern Mathematics (ICCSMM-2022) on,	current Scenario in Modern Mathematics (ICCSMM-2022)	International	4 February 2022	ISBN: 978-81-948552-9-3.	Department of Mathematics, Aditanar College of Arts and Science, Tiruchendur.
More on sgbsb*open sets	K. Bageerathi and P. Selvan,	Proceedings of the International Virtual Conference in current Scenario in Modern Mathematics (ICCSMM-2022) on,	current Scenario in Modern Mathematics (ICCSMM-2022)	International	4 February 2022	ISBN: 978-81-948552-9-3.	Department of Mathematics, Aditanar College of Arts and Science, Tiruchendur.
Normal Spaces Associated with sgbsb*open sets	K. Bageerathi and P. Selvan	Proceedings of the International Virtual Conference in current Scenario in Modern Mathematics (ICCSMM-2022) on,	current Scenario in Modern Mathematics (ICCSMM-2022)	International	4 February 2022	ISBN: 978-81-948552-9-3.	Department of Mathematics, Aditanar College of Arts and Science, Tiruchendur.

On Neutrosophic Dot d-ideals of d-Algebras,	K. Bageerathi,	Proceedings of the International Virtual Conference in current Scenario in Modern Mathematics (ICCSMM-2022) on,	current Scenario in Modern Mathematics (ICCSMM-2022)	International	4 February 2022	ISBN: 978-81-948552-9-3.	Department of Mathematics, Aditanar College of Arts and Science, Tiruchendur.
Banach Steinhaus Theorem on Linear G^* -Normed Spaces	K. Bageerathi and P. Selvan	Proceedings of the National Seminar on Recent Trends in Algebra & Analysis (RTAA-23)	Recent Trends in Algebra & Analysis (RTAA-23)		on 18 January 2023	ISBN:978-93-9429315-1	Department of Mathematics, Aditanar College of Arts and Science, Tiruchendur.
Generalized Semi B^* -open sets in topological spaces	K. Bageerathi and G. Janaki	Proceedings of the National Seminar on Recent Trends in Algebra & Analysis (RTAA-23)	Recent Trends in Algebra & Analysis (RTAA-23)		on 18 January 2023	ISBN:978-93-9429315-1	Department of Mathematics, Aditanar College of Arts and Science, Tiruchendur.
Fixed point theorems on G^* -Normed Spaces	K. Bageerathi and P. Selvan	Proceedings of the National Seminar on Recent Trends in Pure and Applied Mathematics (RTPAM '23)	Recent Trends in Pure and Applied Mathematics (RTPAM '23)	National	21 sep 2023	978-81-965805-3-7	Department of Mathematics, Aditanar College of Arts and Science, Tiruchendur.

Ph.D. (Completed)

S.No.	Name of the Scholar	Title of the Thesis	Viva- voce Completed
1	Mrs. N. Revathi, Reg. no. : 11753	On New Type of Sets in Soft Bitopological Spaces	01.04.2019
2	Mrs. T. Thangam, Reg. no. : 11754	A Study on Fuzzy Bitopological Spaces	28.06.2019
3	P. Jeya Puvaneswari, Reg. No. 9557	Some Studies in Neutrosophic Topological Spaces	11.10.2019

4	Mrs. M. Jeyachitra, Reg. No. 11752	A Study on a New Class of Generalized Closed Sets in Topological Spaces.	24.10.2020
5	Mrs. S. Saranya, Reg. No. 12210	A Study on a Weaker form of Open sets in Topological Spaces	22.09.2021
6	Iswarya Reg. No. 12209	Some Studies in Neutrosophic Topological Spaces	20.09.2023

Ph.D(Ongoing)

S.No.	Name of the Scholar	Title of the Thesis	
1	Mr. P. Selvan Reg No. 22122022091005	Some Extensions on Metric Spaces	Doing
2	Ms. K. Japhia Tino Mercy Reg. No. 22122022092006	Sequential Fuzzy Topology	Doing
3	Mrs.G. Janaki Reg. No. 22122022092005	A New Class of Closed Sets in Topological Spaces.	Doing