



Dr.K.Bala Deepa Arasi

Assistant Professor

PG & Research Department of Mathematics

A.P.C.Mahalaxmi College for Women, Thoothukudi

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Date of Appointment : 24th August 2017

Education : M.Sc., M.Phil., Ph.D.,

Specialization : Topology

Education & Credentials

Degree	College / University	Specialization	Year
Ph.D.,	Manonmaniam Sundaranar University, Tirunelveli	Topology	2017
M.Phil.,	A.P.C.Mahalaxmi College for Women, Thoothukudi	Mathematics	2008
M.Sc.,	A.P.C.Mahalaxmi College for Women, Thoothukudi	Mathematics	2007
B.Sc.,	A.P.C.Mahalaxmi College for Women, Thoothukudi	Mathematics	2005

Research Experience

Ph.D:

- a) Topic : “Certain Investigations into $sb\hat{g}$ -closed in Topological and Bi-topological spaces.”

b) Name and Description of
the Supervisor :

Dr.S.Navaneethkrishnan,
Associate Professor of Mathematics,
V.O.Chidambaram College,
Thoothukudi.

Research Guidance:

Ph.D - 2 (Pursuing)

Project Guidance:

- a) M.Sc., - 23 students
b) M.Phil., - 7 students

Research Papers published in journals:

S. No	Name of the Paper	Name of the Journal	Level	Year	ISSN/ ISBN No.	Impact Factor
1.	On $sb\hat{g}$ -closed sets in topological spaces	International Journal of Mathematical Archive	International	Vol. 6(10), 115-121, 2015	2229-5046	5.835
2.	On ψg^* -closed sets in Topological spaces	International journal of Engineering Research & Technology	International	Vol.4, Issue 2, 398-402, December 2015	2278-0181	1.76
3.	On $b^*\hat{g}$ - closed sets in Topological Spaces	International Research Journal of Mathematics, Engineering & IT	International	Vol.2, Issue 12, 1-13, December 2015	2349-0322	2.868
4.	On $sb\hat{g}$ -continuous functions and $sb\hat{g}$ -homeomorphisms in topological spaces	International Research Journal of Mathematics, Engineering and IT	International	Vol.3, Issue 1, 22-38, January 2016	2349-0322	2.868

5.	On contra $sb\hat{g}$ -continuous functions in topological spaces	International Journal of Engineering Research and Technology	International	Vol.5, Issue 2, 135-142, February 2016	2278-0181	1.76
6	On ψg^* -continuous functions in Topological Spaces	Proceedings of International Conference on Recent Trends in Mathematical Modeling	International	pp 276-289, 12 th February 2016	13-978-93-82592-00-06	
7.	On Topological $sb\hat{g}$ -quotient mappings	International Journal of Innovative Research in Science, Engineering and Technology	International	Vol.5, Issue 6, 9435-9443, June 2016	2319-8753	6.209.
8.	On ψg^* -closed sets in Topological Spaces	Enrich	State	Vol. VII, Issue II, 71-75, Jan-June 2016.	2319-6394	
9.	On $sb\hat{g}$ -connected and $sb\hat{g}$ -compact spaces	International Journal of Engineering and Scientific Research	International	Vol. 4, Issue 8, 89-101, August 2016	2347-6532	6.660
10.	On ψg^* -open maps and ψg^* -homeomorphisms in Topological spaces	International Journal of Mathematical Archive	International	Vol.7(5), 90-99, 2016	2229-5046	7.543
10.	On (τ_i, τ_j) - $sb\hat{g}$ -closed sets in bi-topological spaces	International Journal of Sciences and Applied Research	International	3(8), 104-116, 2016	2394-2401	4.129
11.	On $b^*\hat{g}$ -continuous functions and $b^*\hat{g}$ -open maps in Topological spaces	International Journal of Mathematical Archive	International	8(7), 121-128, 2017	2229-5046	7.543

12.	On contra $b^*\hat{g}$ -continuous functions in Topological spaces	International Journal of Science, Engineering and Management	International	Vol. 2, Issue 12, Dec 2017	2456-1304	2.7
13	\hat{g}^* - R_i $i=0,1$ spaces in Topological spaces	Proceedings of National Conference on Innovations in Mathematics	National	9 th Feb 2018, 76-80	978-81-935198-5-1	
14	\hat{g}^* -separation axioms in Topological spaces	Proceedings of National Conference on Innovations in Mathematics	National	9 th Feb 2018, 81-86.	978-81-935198-5-1	
15.	On $b^*\hat{g}$ -homomorphism in Topological spaces	International Journal of Engineering and Scientific Research	International	Vol6(2) , Feb 2018-149-155	2347-6532	6.660
16	Some Neighbourhood Prime Graphs	Enrich	Regional	Vol IX(I), 32-39, July – Dec. 2017	2319-6394	
17	Neighbourhood Prime labelling on some square Graphs	Enrich	Regional	Vol IX(II), Jan – Jun 2018	2319-6394	
18.	A New Notion on some applications of $b^*\hat{g}$ - closed sets in Topological spaces.	International Journal of Recent Research Aspects	International	April 2018,456-460	2349-7688	1.235
19.	$SB\hat{g}$ - R_0 space and $SB\hat{g}$ - R_1 space	Proceedings of National Seminar on New Dimensions in Mathematics and its applications	National	22-29, October 2018		

20	\hat{g}^* - continuous maps in topological spaces	Proceedings of National Seminar on New Dimensions in Mathematics and its applications	National	74 – 83, October 2018		
21	Some new separation axioms in Topological Spaces	Journal of Emerging Technologies and Innovative Research	International	February 2019, Vol.6, Issue 2, 336-341	2349-5162	5.87
22	ρ - T_0 and ρ - T_1 spaces in Topological spaces	Journal of Emerging Technologies and Innovative Research	International	February 2019, Vol.6, Issue 2, 731-735	2349-5162	5.87
23	Application on \hat{g} -closed sets in Topological Spaces	Journal of Emerging Technologies and Innovative Research	International	February 2019, Vol.6, Issue 2, 742-747	2349-5162	5.87
24	Some new \hat{g}^* -continuous functions in Topological Spaces	Journal of Emerging Technologies and Innovative Research	International	February 2019, Vol.6, Issue 2, 757-761	2349-5162	5.87
25	Application on \hat{g} -closed sets in Topological Spaces	Journal of Emerging Technologies and Innovative Research	International	February 2019, Vol.6, Issue 2, 832-836	2349-5162	5.87
26	On generalized semi \hat{g} -closed sets in Topological Spaces	Journal of Emerging Technologies and Innovative Research	International	February 2019, Vol.6, Issue 2, 862-866	2349-5162	5.87
27	On \hat{g}^* -closed sets in Topological spaces	Journal of Emerging Technologies and Innovative Research	International	February 2019, Vol.6, Issue 2, 867-871	2349-5162	5.87

28	3-Graphoidal path covers	Journal of Emerging Technologies and Innovative Research	International	February 2019, Vol.6, Issue 2, 940-945	2349-5162	5.87
29	On Some Neighbourhood prime labeling of graphs	Journal of Emerging Technologies and Innovative Research	International	February 2019, Vol.6, Issue 2, 1252-1257	2349-5162	5.87
30	The Strong Product on Anti-Fuzzy Graphs	Proceedings on International Conference on Graph Theory and its applications	International	pp 24-30, February 2019	978-81-938054-7-3	
31	Some results on Cube-divisor Cardial Labelling Graphs	Proceedings on International Conference on Graph Theory and its applications	International	pp 41-46, February 2019	978-81-938054-7-3	
32	Some new class of functions on soft JP closed sets	Proceedings on International Conference on Graph Theory and its applications	International	Pp 13-18, February 2019	978-81-938054-7-3	

Book Published:

S.No	Name of the Book	ISBN Number	Year
1	சமூக படைப்புகள்	978-81-94-2832-8-7	2019

Papers presented in Seminars / Conferences:

S. No	Date	Name of the Program	Topic	Venue	Level
1.	26.03.2015 & 27.03.2015	Recent Developments in Functional Analysis, Topology and Graph Theory	#rg open sets in bi-topological space	The Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli	National
2.	30.09.2015	Recent Developments in Algebra and Graph Theory	$b^*\hat{g}$ – closed sets in Topological Spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi.	State
3.	28.02.2017	Mathematics and its application scenario in 21 st century	$b^*\hat{g}$ –continuous and $b^*\hat{g}$ –open maps in Topological Spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi.	National
4	14.12.2017	Conference on Recent Advancements in Information Technology, Science and Engineering	Contra $b^*\hat{g}$ – continuous in Topological Spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi.	Inter national
5	09.02.2018	Conference on Innovations in Mathematics	$\hat{g}^* - R_i, I = 0,1$ spaces in Topological Spaces	Sadakathullah Appa College (Autonomous), Tirunelveli.	National
6	09.02.2018	Conference on Innovations in Mathematics	$\hat{g}^* -$ separation axioms in Topological Spaces	Sadakathullah Appa College (Autonomous), Tirunelveli.	National
7	20.02.2018	Conference on Current Scenario in Pure an Applied Mathematics	Neighbourhood Prime Labeling on Square Graphs	Sri Sarada College for Women, Tirunelveli.	National
8	20.02.2018	Conference on Current Scenario in Pure an Applied Mathematics	Some neighbourhood Prime Graphs	Sri Sarada College for Women, Tirunelveli.	National
9	17.10.2018	Seminar on New Dimensions in Mathematics and its applications	$SB\hat{g}-R_0$ space and $SB\hat{g}-R_1$ space	Kamaraj College, Thoothukudi	National

10	17.10.2018	Seminar on New Dimensions in Mathematics and its applications	$\hat{g}s^*$ - continuous maps in topological spaces	Kamaraj College, Thoothukudi	National
11	20.12.2018 & 21.12.2018	Conference on Recent Trends in Multi-Disciplinary Research	Application on $b\hat{g}$ -closed sets in Topological Spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi	International
12	20.12.2018 & 21.12.2018	Conference on Recent Trends in Multi-Disciplinary Research	Application on $sb\hat{g}$ -closed sets in Topological Spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi	International
13	20.12.2018 & 21.12.2018	Conference on Recent Trends in Multi-Disciplinary Research	Some new $b^*\hat{g}$ -continuous functions in Topological Spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi	International
14	20.12.2018 & 21.12.2018	Conference on Recent Trends in Multi-Disciplinary Research	ρ - T_0 and ρ - T_1 spaces in Topological spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi	International
15	20.12.2018 & 21.12.2018	Conference on Recent Trends in Multi-Disciplinary Research	On Some Neighbourhood prime labeling of graphs	A.P.C.Mahalaxmi College for Women, Thoothukudi	International
16	20.12.2018 & 21.12.2018	Conference on Recent Trends in Multi-Disciplinary Research	Some new separation axioms in Topological Spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi	International
17	20.12.2018 & 21.12.2018	Conference on Recent Trends in Multi-Disciplinary Research	On generalized semi $b\#$ -closed sets in Topological Spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi	International
18	20.12.2018 & 21.12.2018	Conference on Recent Trends in Multi-Disciplinary Research	3-Graphoidal path covers	A.P.C.Mahalaxmi College for Women, Thoothukudi	International

19	20.12.2018 & 21.12.2018	Conference on Recent Trends in Multi-Disciplinary Research	On R^* -closed sets in Topological spaces	A.P.C.Mahalaxmi College for Women, Thoothukudi	International
20	25.09.2019	Conference on Pure and Applied Mathematics	A new class of closed sets in Topological Spaces	Wavoo Wajeetha Women's College of Arts and Science, Kayalpatnam	National
21	25.09.2019	Conference on Pure and Applied Mathematics	Semi Feebly generalized closed sets	Wavoo Wajeetha Women's College of Arts and Science, Kayalpatnam	National

Orientation/Refresher programme attended:

Attended Orientation programme conducted by UGC-HRDC, Bharathiar University from 13.02.2019 to 12.03.2019.

Online Course completed:

S.No.	Course Name	Duration	Type of Certificate	Conducted by	Funded by
1.	Body Language – A key to professional success	4 weeks	Successfully complete	NPTEL	MHRD, Govt. of India
2.	Introduction to Biostatistics	8 weeks	Elite	NPTEL	MHRD, Govt. of India

Workshops/ Seminars / Conferences attended:

S.No	Date	Name of the Program	Venue	Type of the Program	Level
1.	19.01.2011	Preparation for NET in Mathematical Sciences	Holy Cross College, Nagercoil	Seminar	State
2.	27.01.2011	Nurturing the Spirit of Research among Undergraduate students	A.P.C.Mahalaxmi College for Women, Thoothukudi	Workshop	State

3.	17.09.2011	Modern Trends in Pure and Applied Mathematics	Sri Kaliswari College, Sivakasi	Conference	National
4.	12.10.2011 & 13.10.2011	Recent Trends in Mathematics	A..P.C.Mahalaxmi College for Women, Thoothukudi	Seminar	National
5.	23.02.2012 & 24.02.2012	Fuzzy optimization and Graph Theory with applications	Mepco Schlenk Engineering College, Sivakasi	Conference	National
6.	21.03.2012 & 22.03.2012	Frontiers of Pure and applied Mathematics	Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli	Conference	National
7.	02.04.2012	Graph Theory and Topology	V.O.Chidambaram College, Thoothukudi	Seminar	State
8.	06.09.2013	Emerging Trends in Graph Theory and Fuzzy Mathematics	A.P.C.Mahalaxmi College for Women, Thoothukudi	Seminar	State
9.	22.01.2015 & 23.01.2015	Advances in Fuzzy Algebra, Fuzzy Topology and Fuzzy Graphs	A.P.C.Mahalaxmi College for Women, Thoothukudi	Conference	National
10.	26.03.2015 & 27.03.2015	Recent Developments in Functional Analysis, Topology and Graph Theory	The Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli	Seminar	National
11.	30.09.2015	Recent Developments in Algebra and Graph Theory	A.P.C.Mahalaxmi College for Women, Thoothukudi	Seminar	State
12.	28.02.2017	Mathematics and its application scenario in 21 st century	A.P.C.Mahalaxmi College for Women, Thoothukudi	Seminar	National
13.	06.07.2017	Discussions, Interactions and Literature on Gender Studies – DIALOGS 2017	A.P.C.Mahalaxmi College for Women, Thoothukudi	Seminar	National
14	14.12.2017	Recent Advancements in Information Technology, Science and Engineering	A.P.C.Mahalaxmi College for Women, Thoothukudi	Conference	Inter national
15	22.12.2017	Net Training Programme	A.P.C.Mahalaxmi	Workshop	State

			College for Women, Thoothukudi		
16	09.02.2018	Innovations in Mathematics	Sadakathullah Appa College (Autonomous), Tirunelveli.	Conference	National
17	20.02.2018	Current Scenario in Pure an Applied Mathematics	Sri Sarada College for Women, Tirunelveli.	Conference	National
18	19.04.2018 – 20.04.2018	Recent Trends in Multi – Disciplinary Research	V.O.Chidambaram College, Thoothukudi.	Conference	Inter national
19	17.10.2018	New Dimensions in Mathematics and its applications	Kamaraj College, Thoothukudi	Seminar	National
20	20.12.2018 & 21.12.2018	Recent Trends in Multi- Disciplinary Research	A.P.C.Mahalaxmi College for Women, Thoothukudi	Conference	Inter national
21	02.02.2019	Scholarly Writing and Publishing Research Papers	V.O.Chidambaram College	Workshop	State

Total Teaching Experience

U.G.	:	10 years
P.G.	:	10 years
M.Phil	:	5 years

Faculty Development Programme completed

S.No.	Course Name	Duration	Conducted by	Funded by
1.	Body Language – A key to professional success	4 weeks	NPTEL	MHRD, Govt. of India
2.	Introduction to Biostatistics	8 weeks	NPTEL	MHRD, Govt. of India

3.	The Role of faculty in Institutional Development	17 th August 2019	IQAC, V.O.Chidambaram College, Thoothukudi	IQAC, V.O.Chidambaram College, Thoothukudi
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Expertise shared:

1. Acted as a Judge in Poster Presentation competition conducted by the Department of Physics, A.P.C.Mahalaxmi College for Women on 26.09.2017
2. Served as a Chair Person in a International Conference on Recent Trends in Multi-Disciplinary Research at A.P.C.Mahalaxmi College for Women, Thoothukudi on 20.12.2018 to 21.12.2018.
3. Delivered a lecture on the topic “A weaker form of generalized closed sets in Topological Spaces” in the Research Oriented Lecture Series conducted by Department of Mathematics, A.P.C.Mahalaxmi College for Women, Thoothukudi on 16th August 2019.

Recognition

- Member in Institute for Engineering Research and Publication from 27.09.2019 to 31.12.2020.

Participation in College Committees

- Incharge of Students’ Union Activity Committee from 2009 to 2016 (7 years).
- Incharge of Alumnae Association from 2017 to 2018
- Incharge of Youth Red Cross from 2018 to 2019
- Incharge of Library Advisory Committee from 2018 to 2019
- Incharge of College Calendar Committee
- Coordinator in APCian Alumnae Association.