

BIODATA

Name RAJI PILAKKAT

Designation Professor

Official Address Department of Mathematics
University of Calicut
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Educational Qualifications:

- *B.Sc. (Mathematics Main, Statics & Physics as subsidiaries)
Calicut University – 1982, FIRST CLASS (Awarded Ismail Sahib Prixe for having secured the highest marks among the students of Farook College)*
- *M.Sc. (Mathematics) Calicut University – 1984, FIRST CLASS, SECOND RANK. . .
(Awarded C.P Kunhammed Sahi Prize fro having secured the highest marks among the students of Farook College, Awarded University Merit Scholarship)*
- *M. Phil (Mathematics) Calicut University – 1987, FIRST CLASS*
- *Ph.D (Mathematics) Calicut University – 2001*

TITLE OF THE Ph.D. THESIS:

“On the study of P-Special sets and Generalized spectral sets”

Position held:

<i>Designation</i>	<i>Name of Employer</i>
<i>Junior Lecturer</i>	<i>Manager, N.S.S Corporate colleges</i>

<i>Lecturer</i>	<i>P. Sc Selection & Registrar University of Calicut</i>
<i>Lecturer Senior Scale</i>	<i>Registrar University of Calicut</i>
<i>Lecturer Selection Scale</i>	<i>Registrar University of Calicut</i>
<i>Assistant Professor (Sr. Scale)</i>	<i>Registrar University of Calicut</i>
<i>Professor</i>	<i>Registrar University of Calicut</i>

No. of Ph.D's produced: 8

No. Papers published in National/International journals: Above 50

Membership in different academic bodies : Was a Member of Academic council, PG board of studies of Calicut and other Universities, Faculty of Science, Chair Person PG Board of Studies (PG)
This time also nominated as the Chair peron BoS(PG), University of Calicut

Member ship in Professional Bodies : *Life Member, Kerala Mathematical Association and Life Member, Ramanujan Mathematical Society.*

List of Certain Publications

Sl. No	Title	Co-author	Journal
1.	<i>On Generalized Spectral Sets”</i>		<i>Proceedings of the Annual conference of the Kerala Mathematics Association and National Seminar on analysis and Applications held at UC College Alwaye from 26-28 March 1999</i>
2.	<i>“Spectral Splitting Theorem”,</i>	<i>Dr. M.S. Balasubramani</i>	<i>J. Acta Cincia Indica; (jointly with Balasubramani)</i>
3.	<i>“A note on Spectral Sets”</i>	<i>Dr. M.S. Balasubramani</i>	<i>J. Acta Cincia Indica; (jointly with Balasubramani)</i>
4.	<i>“On regular and Semi regular open Sets”</i>		<i>Proceedings of the 20th annual conference of the Ramanujan Society</i>
5.	<i>Invariant Subspaces</i>		<i>Proceedings of National Conference on Operator Theory and</i>

			<i>Applications, 2009</i>
6.	<i>On Mixed Tree Domination</i>	<i>Preethi Kuttipilakkal</i>	<i>Proceedings on Number Theory PDE and Geometry</i>
7.	<i>Mixed Tree Domination Number</i>	<i>Preethi Kuttipulackal</i>	<i>Advances and Applications in Discrete Mathematics</i>
8.	<i>On Orthogonality: A Review</i>	<i>Sivadasan Thirumangalath</i>	<i>:Proceedings of National Conference on Operator Theory Applications</i>
9.	<i>Best approximations in Uniformly convex linear 2-normed spaces</i>	<i>Sivadasan Thirumangalath</i>	<i>International Journal of Pure & Applied Mathematics Vol.78 No.5 2012,711-719</i>
11.	<i>Baire's Theorem for Linear 2 – normed (K) spaces</i>	<i>Sivadasan Thirumangalath</i>	<i>International Journal of Mathematical Analysis</i>
10	<i>Minimal Digraphs Associated with a Topology</i>	<i>Baby Girija E.V.</i>	<i>Journal of Advances and Applications in Discrete Mathematics</i>
11	<i>Results in Linear 2-normed spaces Analogous to Baire's theorem and closed graph theorem</i>	<i>Sivadasan Thirumangalath</i>	<i>International Journal of Pure and Applied Mathematics Vol.74 No.4,2012,509-517</i>
12.	<i>Relation between Adjacency Matrix of a Digraph and its Topology</i>	<i>Baby Girija E.V.</i>	<i>Bulletin of Kerala Mathematical Association</i>
13.	<i>Bitopological Spaces Associated with Digraphs</i>	<i>Baby Girija E.V.</i>	<i>Theoretical Mathematics & Applications</i>
14.	<i>Characterization of Topologies of some digraphs</i>	<i>Baby Girija E.V.</i>	<i>Journal of Advances and Applications in Discrete Mathematics Vol.9 No.1 (2012) ,21-27</i>
15.	<i>Invariant Subspaces</i>		<i>Proceedings of national conference on Operator Theory and Applications October 1-2, 2009, Payyannur College, Payyannur</i>
16.	<i>Normalized duality mappings on linear 2 – normed spaces and smoothness</i>	<i>Sivadasan Thirumangalath</i>	<i>South Asian Journal of Mathematics Vol.3 (1) 2013 78 - 90</i>
17.	<i>Strength of Fuzzy Cycles</i>	<i>Sheeba M.B</i>	<i>South Asian Journal of Mathematics Vol.3 (1) 2013 8 - 21</i>

18.	<i>Strength of a Fuzzy Graphs</i>	<i>Sheeba M.B.</i>	<i>Far East Journal of Mathematical Sciences (FJMS) Vol.73, No.2 2013, 273-288</i>
19.	<i>Minimal Digraph associated with the product of two T_0 Topological Spaces</i>	<i>Baby Girija E.V</i>	<i>Journal of the Kerala Mathematical Association Vol.10 No.1 2013 27-32</i>
20.	<i>Results in 2 Normed Linear Spaces analogues to Bair's and closed graph Theorem,</i>	<i>Sivadasan Thirumangalath</i>	<i>International Journal of pure & Applied Mathematics, 2012.</i>
21.	<i>mt-Excellent graphs</i>	<i>Preethi Kuttipulackal</i>	<i>Proceedings of Kerala Science Congress, 2013.</i>
22.	<i>Mixed Tree Domination Number and other graph Parameters,</i>	<i>Preethi Kuttipulackal</i>	<i>Bulletin of Kerala Mathematical Association, Vol.12, 149- 159</i>
23.	<i>Minimal Digraph Associated with product of two topological spaces, KMA, 2013.</i>	<i>Baby Girija E.V</i>	<i>Bulletin of Kerala Mathematical Association</i>
24.	<i>T_0 Graphs</i>	<i>Seena V</i>	<i>International Journal of Applied Mathematics Volume 29 No. 1 2016, 145-153 ISSN: 1311-1728 (printed version); ISSN: 1314-8060 (on-line version)</i>
25.	<i>Strength of Certain Fuzzy Graphs</i>	<i>K.P. Chithra</i>	<i>International Journal of Pure and Applied Mathematics Volume 106 No. 3 2016, 883-892</i>
26.	<i>Hausdorff_ Property of Some Derived Graphs</i>	<i>Seena V</i>	<i>Far East Journal of Mathematical Sciences</i>
27.	<i>Hausdorff_ Property of Cartesian and Wreath Product of Hypergraphs</i>	<i>Seena V</i>	<i>International Journal of Applied Mathematics</i>
28.	<i>Hausdorff Property of Cartesian and Tensor Product of Graphs</i>	<i>Seena V</i>	<i>International Journal of Pure and Applied Mathematics Volume 106 No. 2 2016, 523-531 ISSN: 1311-8080 (printed version); ISSN: 1314-3395</i>
29.	<i>Hausdorff property of Lexicographic ,conormal and Homomorphic product of graphs.</i>	<i>Seena V</i>	<i>Far East Journal of Mathematical Sciences</i>

30.	<i>T1 Property of Product of Graphs</i>	<i>Seena V</i>	<i>Bulletin of Kerala Mathematical Association.</i>
31.	<i>Hausdorff Graphs</i>	<i>Seena V</i>	<i>British Journal of Mathematics & Computer Science</i>
32.	<i>Hausdorff Hypergraph</i>	<i>Seena V</i>	<i>Bulletin of Kerala Mathematical Association.</i>
33.	<i>Strength of line graph of certain fuzzy graphs</i>	<i>K.P. Chithra</i>	<i>Annals of Fuzzy Mathematics and Informatics</i>
34.	<i>Strength of Certain Fuzzy Graphs</i>	<i>Chithra K.P</i>	<i>Annals of Fuzzy Mathematics and Informatics</i>
35.	<i>Strength of Subdivision Graph of Certain Fuzzy Graphs</i>	<i>Chithra K.P</i>	<i>International Journal of Current Engineering Sciences</i>
36.	<i>Strength of Cartesian product of Certain Fuzzy Graphs</i>	<i>:Chithra K.P</i>	<i>European Journal of Pure and Applied Mathematics</i>
37.	<i>T1 Graphs</i>	<i>Seena V</i>	<i>International Journal of Pure and Applied Mathematics.</i>
38.	<i>Neighborhood Sigma algebra of Graph products</i>	<i>P. Jisna</i>	<i>International Electronic Journal of Pure and Applied Mathematics</i>
39.	<i>Measurable Dominting Functions</i>	<i>P. Jisna</i>	<i>Electronic Journal of Pure and applied Mathematics</i>

40.	<i>Neighborhood sigma algebras of middle graphs, total graphs and join of two graphs</i>	<i>P. Jisna</i>	<i>Global Journal of Pure and Applied Mathematics</i>
41.	<i>Measurable signed dominating functions</i>	<i>P. Jisna</i>	<i>Bulletin of Kerala Mathematical Association</i>
42.	<i>Sections of measurable functions</i>	<i>P. Jisna</i>	<i>Far east journal of Mathematical Sciences</i>
43	<i>Modified Cycle Neighbor Polynomial of a graph</i>	<i>Annie SabithaPaul</i>	Advances in Mathematics: Scientific Journal 9 (2020), no.10, 8883–8889 ISSN: 1857-8365 (printed); 1857-8438 (electronic)
44	Cycle neighbor polynomial of some graph operations	<i>Annie SabithaPaul</i>	Malaya Journal of Matematik, Vol. 8, No. 4, 1703-1707, 2020
44	Transit index of a graph and its correlation with mon of octane isomers	K. M. Reshmi	Advances in Mathematics: Scientific Journal (Accepted)
45	Transit index of various graph classes	K. M. Reshmi	Malaya Journal of Matematik
46	On cycle neighbour equivalence and cycle neighbor roots of a graph	<i>Annie SabithaPaul</i>	Malaya Journal of Matematik, Vol. 8, No. 1, 27-31, 2020
47	A note on Hausdorff domination	<i>Annie SabithaPaul</i>	Global Journal of Pure and applied Mathematics
48.	A note on TO Domination	<i>Annie SabithaPaul</i>	International Journal of Research in Advent Technology

49.	Minimum inclusive degree sum dominating set	<i>Saleel Mohammed</i>	Malaya Journal of Matematik, Vol. 8, No. 4, 1885-1889, 2020
50.	Connected F domination	<i>S. Midhun</i>	Malaya Journal of Matematik, Vol. 8, No. 4, 1894-1897, 2020