

Profile



Personal Information:

Name: Dr.R.BHAVANI

Designation: Associate Professor of Mathematics

Department: Mathematics

E-Mail ID: bhavani120475@gmail.com

Contact No: 9942036132

I. Academic Qualifications:

Doctoral Research Ph.D

- **University:** Madurai Kamaraj University, Madurai, India
- **Title:** A Study on New Generalized closed sets in Bitopological Spaces
- **Year:** 2017

Master of Philosophy

- **University:** Madurai Kamaraj University, Madurai, India
- **Degree:** Master of Philosophy in Mathematics
- **Year:** 1999

Post-Graduation

- **University:** Madurai Kamaraj University, Madurai, India
- **Degree:** Master of Science in Mathematics
- **Year:** 1998

Under Graduation:

- **University:** Madurai Kamaraj University, Madurai, India
- **Degree:** Bachelor of Science in Mathematics
- **Year:** 1996

II. Teaching Experience:

Work Experience:

- **Under-Graduate:** 17 years
- **Post Graduate:** 17 years
- 2004-2006 Worked as a Lecturer in Mannar Thirumalai Naicker College (SF), Madurai.
- From 2006 – Working as an Assistant Professor in the Regular Stream in Mannar Thirumalai Naicker College, Madurai

III. Area of Specialization:

- Study of Bitopological Spaces
- Study of General Topology

IV.Details of recognized research guides

S.No	Subject	Date & Month of award of Guideship	Guideship Number
1	Topology	03.07.2020	2002/20

V. Orientation / Refresher Courses /Faculty Development Programme/Short Term Courses Attended:

Orientation Course:

- . UGC Sponsored Orientation Programme at Madurai Kamaraj University, Madurai 10th June 2008

Refresher Course:

- . UGC Sponsored Refresher Course on the theme of Advanced Analysis and its Applications at Madurai Kamaraj University, Madurai 27th February 2012
- . UGC Sponsored Refresher Course on the theme of Recent Trends in Mathematics at Madurai Kamaraj University, Madurai February 2014
- . UGC, HRDC, Andhra University, Visakhapatnam Inter Disciplinary-Environmental Sciences, 26.08.2021 to 8.09.2021
- . UGC, HRDC, UNIVERSITY OF ALLAHABAD , 02.11.22 to 15.11.22

Faculty Development Programme:

- . Faculty Development programme on Pedagogy and Research Methods from 24-05-2021 to 06-06-2021 at Human Resource Development Center and Internal Quality Assurance Cell
- . Faculty Development programme on Prominence of Mathematics in Diverse Sectors, Hindusthan College of Engineering and Technology, 15.07.2020
- . Faculty Development programme on IQAC, Madurai Kamaraj University, Quality Assurance and Sustenance in Higher Education, 11.03.2020
- . Faculty Development programme on IQAC, Madurai Kamaraj University, Promotion of API Score and CAS, 03.03.2020
- . Faculty Development programme on IQAC, Madurai Kamaraj University, One day Training and Production Workshop on prospects of Outcome Based Curriculum, 09.03.2019
- . Faculty Development programme on Madurai Kamaraj University, Promotion of API Score and CAS Filing, 02.03.2019

- . Faculty Development programme on Madurai Kamaraj University,Intellectual Property Rights,Skill Development Programme,Innovations,Patents and Setting up Incubation Centers,22.01.2019.
- . Faculty Development programme on the theme of Emerging Trends in General Topology at Nadar Saraswathi College of Arts and Science,January 2014.

VI. Books/Chapters Published in edited Volumes:

- . Recent Trends in Mathematical Models published by Shanlax Publications ,(ISBN No: 978-93-80686-97-4)

VII. Papers Published in UGC Notified Journals:

- On Some Properties of Micro- Λ_{Λ_m} -Sets in Micro Topological Spaces, Indian Journal of Natural Sciences, Vol14,Issue-81,Dec 2023
- Applications of optimal Nutrient Content and Nutritional Security of Millets using Micro Topological Spaces, Pramana Research Journal,Vol 13,Issue 3, March 2023
- On Continuity of γ^* GRWC Sets, Indian Journal of Natural Sciences , Vol14,Issue-80,Oct 2023
- Micro \wedge - Generalized Closed sets and Properties of Micro \wedge sets in Micro Topological Spaces, Indian Journal of Natural Sciences,Vol14,Issue-77,April 2023
- Micro $-I - \alpha$ - open sets and Micro $-I - \alpha$ Continuous function in Micro Topological Spaces, Indian Journal of Natural Sciences,Vol 13,Issue 76,Feb 2023
- Design and Evaluation of the Traffic signal light Control to Reduce the Vehicle Waiting Time,YMER, Vol21, Oct 2022
- MIC – αI_g and MIC $-I_g \alpha$ Closed sets in Micro ideal Topological Spaces, Indian Journal of Natural Sciences Vol13,Issue 75Dec 2022
- On MIC- αI_g Continuous and MIC αI_g – Irresolute

- An Application of Micro Topological Spaces with Decision Making Problem in Dengue Fever, YMER, Vol 21, Issue 12, pg no:1790-1805, Dec 2022.
- An Application of Micro Topological Spaces with Decision Making Problem in Medical Events, YMER, Vol 21, Issue 11, pg no:1790-1805, Nov 2022.
- On Micro- I^*g – closed sets in micro ideal topological spaces. International Journal of Health Sciences, 6(S4), 2669–2674, (2022).
- On Nano Ω – Closed Sets, Journal of Xidian University ISSN No: 1001-2400
- On Strong Forms of Generalized Closed Sets In Micro Topological Spaces, Turkish Journal of Computer and Mathematics Education, Vol.12, No:11(2021), 2772-2777
- On The Classes $(1,2)$ - β_c -Open Sets in Bitopological Spaces in International Journal of Mathematics Trends and Technology (IJMTT) in 2020 Volume 66 Issue 2 ISSN No: 2231-5373.
- Some properties of Nano $g(1,2)^*$ -closed sets in IJST in 2019
- On Some Classes of Nano $(1,2)^*g$ -closed sets in Bitopological Spaces in IJRT in 2018 Volume 5 with Impact factor 5.417 ISSN No: 2231-9637
- On Nano $\wedge rg$ – closed sets in International Journal of Applied Mathematics in 2017 Volume 5 ISSN No: 1314-8060

- Properties of Nano αg^\wedge - closed sets in Journal of Global Research in Mathematical Archives in 2017 Volume 5 ,Issue 2, ISSN No : 2320-5822
- On $g\sim(1,2)^*$ - closed sets in International Journal of Mathematics and its applications Page Number (65-73) in 2015 Volume 3, ISSN No : 2347-1557

VIII. Papers Presented in Seminars/Conferences :

- $g(1,2)^*$ - open maps in Bitopological spaces State Level in Resent Trends in Mathematical Models at Mannar Thirumalai Naicker College 14th August 2014
- $T(1,2)^*$ -in Bitopological spaces National Level in Resent Trends in Applied Mathematics at Mannar Thirumalai Naicker College 14th August 2015
- Women Empowerment – Milestones and Challenges International Level Women’s Cell at N.M.S.S. Vellaichamy Nadar College 8th October 2015
- Some properties of Nano $g(1,2)^*$ -closed sets International Level,AMST 25th July 2019
- An Application of Micro Topological and Decision making problems in Medical Events, IEEE International E - Conference on Emerging Technologies and Appilcations for a Smart and Sustainable World”, 16.12.2021 – 18.12.2021.
- A New Approach of $(1,2)^*$ - Semi Open Set in Bitopological Spaces IEEE International E - Conference on Emerging Technologies and Appilcations for a Smart and Sustainable World”, 16.12.2021 – 18.12.2021.
- On weak forms of $(1,2)^* \Gamma$ open sets and some new separation axioms, International Conference on Exploration of Comtemporary Mathematical Sciences -2022, 17.03.2022 & 18.03.2022.
- An application of Micro topological Spaces with decision making problem in dengue fever,International Conference on Exploration of

Contemporary Mathematical Sciences -2022, 17.03.2022 & 18.03.2022.

- Micro – I – α – open sets and Micro I – α – continuous functions in Micro Ideal topological spaces, National Conference on Present Scenerio in Mathematical Research, 22.04.2022.
- New approach of Micro - \wedge - Generalised closed sets in micro topological spaces, National Conference on Present Scenerio in Mathematical Research, 22.04.2022.
- On Micro I_g^* - Closed sets in Micro Ideal Topological Spaces, International Conference on Analysis and Applied Mathematics, 26.04.2022 – 28.04.2022.
- γ^* grws sets with grill ,Recent Development and Techneques in Pure and Applied Mathematics, Alagappa University, 23.03.23& 24.03.23
- Micro - \wedge - Generalised continuous function in micro Topological spaces,International Conference on Emerging Trends in Computational Mathematics and Data Science,Sri Krishna Arts and Science College, Coimbatore,January 10&11,2024

IX. Details of Projects :

S.No	ProjectTitle	Name of Applicant(s)	Status	Amount	Agency	Year
1	A Study On $\tilde{g}(1, 2)$ Closed Set & $\tilde{g}(1, 2)$ -Open Maps In Bitopological Spaces	Dr.R.BHAVANI	Submitted	3,00,000	UGC	August 2015
2	$(1,2)^* g^\omega$ - Continuity And Its Decompositions	Dr.R.BHAVANI	Submitted	5,00,000	NBHM	July 2016
3	A study on $\tilde{g}(1, 2)^*$ - locally closed sets in Bitopological spaces	Dr.R.BHAVANI	Submitted	2,90,000	Management Fund, Mannar Thirumalai Naicker College	June 2017

4	A study on Nano Topological Spaces on Nano Closed Sets	Dr.R.BHAVANI	Submitted	3,00,000	Management Fund, Mannar Thirumalai Naicker College	July 2018
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Details of Seed Money received from the institution for institutional sponsored Faculty / Interdepartmental / Students Project :2

Name of Principal Investigator / Co Investigator	Faculty / Interdepartmental / Students Project	Title of the research project	Amount / Fund received	Year of sanction	Duration
Dr.R.Bhavani	Students Project	“An Application Of Micro Topological Spaces With Decision Making Problem In Medical Events”	10000	Sep 2021	1 year
Dr.R.Bhavani	Students Project	“Investigate Optimal Nutrient Content And Nutritional Security of Millets using Micro Topological Spaces”	12500	Oct 2022	1year

X. Faculty Development Programme/ Conference Seminar Attended:

- . State Level Seminar on Vistas in Mathematics at Sri S.R.N.M College 9th February 2013
- . National Level Seminar on Applicable Mathematics and Mathematical Models at M .S .N .P Meenakshi Women’s College 28th December 2013
- . State Level Seminar Emerging Trends in General to Topology at N.S. College of Arts and Science 24th January 2014
- . National Level Seminar on Applications in Fuzzy Mathematics and Fractal Geometry at The American College 21st February 2014
- . National Level Seminar on Women Empowerment – Milestones and Challenges at S.V.N College 08th October 2015
- . International Level Seminar on Women are the Architects of Society K.L.N College 05th March 2016
- . National Level Seminar on Recent Advances in Pure and Applied Mathematics at Arul Anandar College 13th February 2017.

. International National Level Seminar on Research Process Engineering Effective and For Quantitative Research at G.T.N College 28th February 2017

. National Level Webinar on Stay At Home , Save lives Pledge at Ministry of Electronics and Information Technology 30th March 2020

. National Level Webinar on Safety Against Covid 19 Certificate of Commitment 30th March 2020

. National Level E Quiz on Covid 19 Pandemic General Awareness at Chandigarh Group of College 10th April 2020

. National Level E Quiz on Impact of Covid 19 in Global Economy at Khadir Mohideen College 11th May 2020

. National Level Seminar on Online Mathematics Quiz on Linear equation in One Variable at S.P.S.P.M Junior College 22nd May 2020

. National Level Seminar E Quiz on Numerical Methods at Government College for Women 23rd May 2020

. National Level Seminar on E Quiz by Department of Mathematics at Sengunthar Arts and Science College 26th May 2020

. National Level Webinar on Qualitative Analysis of Differential Equations and its Applications at G.T.N Arts College 27th May 2020

. National Level Webinar on Recent Research Directions in Distance in Graphs at Ayya Nadar Janki Ammal College 28th May 2020

. National Level Webinar on Fuzzy Logics and its Application at SRM TRP Engineering College 29th May 2020

. National Level E Quiz on Pure Mathematics Vel Tech High Tech June 2020

. International National Level Webinar on Graph Theory and Human Factors in Aviation at G.Venkataswamy Naidu College From 3rd June to 05th June 2020

. National Level Online FDP on Introduction to fuzzy sets and its Generalization at Mepco Schlenk Engineering College 10th June 2020

. National Level Webinar on Polynomials associated with Graphs at Tirunelveli Dakshina Mara Nadarsangam College 15th June 2020

- . International Webinar on fourth State of matter and its Application at G.Venkataswamy Naidu College 15th June 2020
- . National Level Webinar on Graph Embedding at Don Bosco College of Arts and Science 15th June 2020
- . National Level E Quiz on Investment Management at Saraswathi Narayanan College 17th June 2020
- . National Level Webinar on Edge Colouring in Graphs at Popes College (Autonomous) 18th June 2020
- . National Level E Quiz Program on Economic Policies of Asia-Pacific Nations against the impact of Covid 19 Pandemic at Saraswathi Narayanan College 18th June 2020
- . National Level Webinar on statistics and Data Analysis at KPR Institute of Engineering and Technology 19th June 2020
- . National Level Webinar on Some New Direction in Graph Theory at S.T. Hindu College 19th June 2020
- . National Level Online Quiz on General Awareness at Tirunelveli Dakshina Mara Nadarsangam College 19th June 2020
- . National Level Webinar on Mind Set Management at The Standard Fireworks Rajaratnam College For Women 20th June 2020
- . National Level Webinar on Mathematical Analysis And Topology at G.Venkataswamy Naidu College 20th June 2020
- . National Level Webinar on Recent Trends in Graph Theory at Government Arts College from 22nd June 2020 to 24th June 2020
- . National Level English On line Quiz at Adhiparasakthi College of Engineering from 24th June 2020 to 30th June 2020
- . National Level E Quiz on Maths GK at Trinity College for Women 26th June 2020
- . National Level E Quiz on Maths in Data Science at Arul Anandar College from 26th June 2020 to 30th June 2020
- . International Level Webinar on Fractional system with Rossenblatt Process and Poison Jumps – Optimal at KPR

Institute of Engineering and Technology 27th June 2020

- . National Level E Quiz on Mathematics at Thavatiru Santhalinga Adigalar Arts and Science College 28th June 2020

- . National Level Webinar on Recent Trends in Mathematics at Indian Institute of Technology 29th June 2020

- . National Level E Quiz on Mathematical Statistics at Saraswathi Narayanan College from 1st July 2020 to 4th July 2020

- . National Level Webinar on Optimal Control of Partial Differential Equations and Application at Indian Institute of Technology 3rd July 2020

- . National Level Webinar on Mind Archives What it Conceives at G.T.N Arts College 4th July 2020

- . National Level Webinar on Ungal Kanavu Maipada at SFR College 6th July 2020

- . National Level E Quiz on Basic Linear Algebra at Virudhunagar Hindu Nadar's Sethukumara Nadar College(Autonomus) 6th July 2020

- . National Level E Quiz on Genius of Mathematics at Mangayarkarasi College of Arts and Science 8th July 2020

- . National Level Webinar on Soft Computing By Soft Sets at Don Bosco College of Arts and Science 10th July 2020

- . International Webinar on Resents Trends in Mathematics at Government Arts College from 10th July 2020 to 11th July 2020

- . National Level Webinar on Object Recognition Yolo/Mobile Net/Cloud at Khalsa College for Women 10th July 2020

- . National Level Webinar on Creative Digital Testing Materials at Tamil Nadu Teachers Education University 11th July 2020

- . National Level Webinar on Online Test For Effective Virtual Teaching and Learning at Stella Matutina College of Education 11th July 2020

- . National Level Webinar Series on Application of Mathematics at KPR Institute of Engineering and Technology from 6th July 2020 to 11th July 2020

- . National Level E Quiz on Quantitative Aptitude (Problems on Ages) For Placements And Competitive Exams at Yadava College 13th July 2020

- . National Level Webinar Knowledge Series on Horizons in Research at Tamil Nadu Teachers Education University from 13th July 2020 to 17th July 2020

- . International FDP on Prominence of Mathematics in Diverse Sectors at Hindustan College of Engineering and Technology 15th July 2020

- . National Level Webinar on Teacher of the Day You too are Sculptors at Cholan College of Education 18th July 2020

- . International webinar, Data Science in e-Commerce, 23.07.2021

- . National Webinar, A Seven Day Online Faculty Development Programme on Enhancing Quality by unearthing Innovative Practices-EQUIP 2022, 18/04/2022 to 24/04/2022

- . Faculty Enhancement Programme on Education 4.0 for Sustainable Economic Development, 27.04.2022

- . An Application of Micro Topological and Decision making problems Technologies and Applications for a Smart and Sustainable World”, 16.12.2021-18.12.2021.

- . A New Approach of $(1,2)^*$ - Semi Open Set in Bitopological Spaces IEEE International E - Conference on Emerging Technologies and Applications for a Smart and Sustainable World”, 16.12.2021-18.12.2021.

- . On weak forms of $(1,2)^*$ Γ open sets and some new Separation axioms, International Conference on Exploration of Contemporary Mathematical Sciences – 2022, 17.03.2022 & 18.03.2022.

- . An application of Micro topological Spaces with decision Making problem in dengue fever, International

Conference on Exploration of Contemporary
Mathematical Sciences -2022, 17.03.2022 &
18.03.2022.

.Micro – I – α – open sets and Micro I – α – continuous
functions in Micro Ideal topological spaces, National
Conference on Present Scenerio in Mathematical
Research, 22.04.2022.

.New approach of Micro - \wedge - Generalised closed sets in
Micro topological spaces, National Conference on Present
Scenerio in Mathematical Research, 22.04.2022.

.On Micro I_g^* - Closed sets in Micro Ideal Topological
Spaces,International Conference on Analysis and Applied
Mathematics,26.04.2022 – 28.04.2022.

. Recent Development and Techneques in Pure and Applied
Mathematics, Alagappa University , Karaikudi,
23.03.23&24.03.23

.International Conference on Emerging Trends in
Computational Mathematics and Data Science,Sri Krishna
Arts and Science College,Coimbatore,January
10&11,2024

XI. Academic Responsibilities (MTNC):

S.No	Name of position	From	To
1	N.S.S Programme Officer	2007	2010
2	ECO Club (convenor)	2010	2015
3	Soft Skill Development Programme Convenor	2014	2015
4	Women’s Development Cell Convenor	2015	2016

5	Women's Hostel Warden	2016	2019
6	Calendar Committee Convenor	2018	2022
7	Women's Development Cell Convenor	2019	2022
8	Autonomy Committee Co-Convenor	2020	2022
9	Research guidance	2021 to Till Date	-
10	Criterion-III-Convenor	2023	-
10	Science Dean	Till Date	-

XII. Faculty Development Programme/Conference Seminar Attended in MTNC:

- . National Level Faculty Development Programme on 4th March 2017
- . National Level Webinar on Online Teaching ,Learning and Assessment from 23rd October 2017 to 24th October 2017
- . National Level e-Content Development and Digital Tools from 2nd March 2018 to 3rd March 2018
- . National Level IPR Skill Development Programmes 22nd January 2019
- . National Level E Workshop Cum E Quiz on Positive Thoughts and Ideal Life 28th May 2020
- . National Level E Quiz on Library and Information Science Life 29th May 2020
- . National Level E Quiz on Palam Tamil Illakkiyam 30th

May 2020

- . National Level E Quiz For NET / SET Preparation in Physical Education 31st May 2020
- . National Level E Quiz on Fundamental Physics 1st June 2020
- . International Webinar, Data Science in e- Commerce, International webinar, International Webinar, 23.07.2021
- . National Webinar ,A Seven Day Online Faculty Development Programme on Enhancing Quality by unearthing Innovative Practices-EQUIP 2022,18/04/2022 to 24/04/2022
- . Faculty Enhancement Programme on Education 4.O for Sustainable Economic Development, 27.04.2022
- . On weak forms of $(1,2)^* \Gamma$ open sets and some new Separation axioms, International Conference on Exploration of Comtemporary Mathematical Sciences – 2022, 17.03.2022 & 18.03.2022.
- . An application of Micro topological Spaces with decision Making problem in dengue fever, International Conference on Exploration of Comtemporary Mathematical Sciences -2022, 17.03.2022 &18.03.2022.

- .Micro – I – α – open sets and Micro I – α – continuous functions in Micro Ideal topological spaces, National Conference on Present Scenerio in Mathematical Research, 22.04.2022.
- .New approach of Micro - \wedge - Generalised closed sets in Micro topological spaces, National Conference on Present Scenerio in Mathematical Research, 22.04.2022.
- . Faculty Enhancement Programme on Education 4.0 for Sustainable Economic Development, Mannar Thirumalai Naicker College, Madurai, 27.04.2022
- . Faculty Research Programme on Dynamics of Research Publications, Mannar Thirumalai Naicker College, Madurai, 15.09.2022 & 16.09.2022
- . National Conference on Current Trends in Applied Mathematics & IPR, Mannar Thirumalai Naicker College, Madurai, 07.10.2022
- . Math Teachers Training Through Low Cost Teaching Aids, Mannar Thirumalai Naicker College, Madurai, 06.07.2022 to 08.07.2022
- . Insights of National Educational Policy, Mannar

Thirumalai Naicker College, Madurai, 18.03.2023

A handwritten signature in black ink, appearing to read "R. Bhavani". The signature is written in a cursive style with a small loop at the end.

(Dr.R.Bhavani)