

# Profile

## Personal Information:

**Name:** Dr.R.BHAVANI

**Designation:** Assistant Professor of Mathematics

**Department:** Mathematics

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## 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** : 13 years 2 Months
  - **Post Graduate** : 13 years 2 Months
- 2001-2003 Worked as a Lecturer in MannarThirumalai Naicker College (SF), Madurai.
  - From 2006 – Working as an Assistant Professor in the Regular Stream in MannarThirumalai Naicker College, Madurai

## **III. Area of Specialization:**

- Study of Bitopological Spaces
- Study of General Topology

## **IV. Orientation / Refresher Courses /Faculty Development Programme/Short Term Courses Attended :**

### **Orientation Course:**

- . UGC Sponsored Orientation Programme at Madurai Kamaraj University, Madurai 10<sup>th</sup> June 2018

### **Refresher Course:**

- . UGC Sponsored Refresher Course on the theme of Advanced Analysis and its Applications at Madurai Kamaraj University, Madurai 27<sup>th</sup> February 2012
- . UGC Sponsored Refresher Course on the theme of Recent Trends in Mathematics at Madurai Kamaraj University, Madurai February 2014

## **V. Books/Chapters Published in edited Volumes :**

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

## **VI. Papers Published in UGC Notified Journals :**

. A New Approach of  $(1,2)^* - \beta - \gamma - c -$  Open Sets and  $(1,2)^* \beta c - \gamma -$  Open Sets in Bitopological Spaces in Adalya Journal Volume 9 , Issue 9 ISSN No : 1301 – 2746 , Sep 2020 .

. On The Classes  $(1,2) - \beta c -$  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  $(1,2)^*$ -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  $\alpha g^\wedge -$  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

## **VII . Paper Published in Proceeding :**

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

- . National Seminar on “ Recent Trends in Applied Mathematics (RTAM-2015)”  
entitled “ $T(1,2)^*$ - in Bitopological spaces ”Organized by the  
Department of Mathematics , MTN College, Madurai on 14th Aug 2015
- . Proceedings on the National Level Seminar on “ Women Empowerment and  
Milestones  
Challenges .” Organized by the Women’s cell, N.M.S.S. Vellaichamy Nadar  
College, Madurai on 8th Oct 2015
- . Proceeding of the National Conference on RAPAAM entitled “  $g^* \omega$   
Closed Sets and Open Sets ” in Organized by the Department of  
Mathematics, Arul Anandar College, Madurai, on 13th Feb 2017.

### **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 14<sup>th</sup> August 2014
- .  $T(1,2)^*$ - in Bitopological spaces National Level in Resent  
Trends in Applied Mathematics at MannarThirumalai  
Naicker College 14<sup>th</sup> August 2015
- . Women Empowerment – Milestones and Challenges  
International Level Women’s Cell at N.M.S.S.Vellaichamy  
Nadar College 8<sup>th</sup> October 2015
- . On  $g^* \omega$  – Closed Sets and open Sets in National Level  
Conference on Recent Advances in pure and Applied Mathematics  
13<sup>th</sup> Feb , 2017
- . Some properties of Nano  $g(1,2)^*$ -closed sets International  
Level , AMST 25<sup>th</sup> July 2019

## IX. Details of Projects:

S.No	Project Title	Name of Applicant (s)	Status	Amount	Agency	Year
1	A Study On $\tilde{g}$ (1, 2) Closed Set & $\tilde{g}(1, 2)$ -	<b>Dr.R.BHAV ANI</b>	Submitted	3,00,000	UGC	August 2015
2	(1,2)* $g^\omega$ - Continuity And Its	<b>Dr.R.BHAV ANI</b>	Submitted	5,00,000	NBHM	July 2016
3	A study on $\tilde{g}$ (1, 2)*- locally closed	<b>Dr.R.BHAV ANI</b>	Submitted	2,90,000	Management Fund, MannarThirumalaiNai cker College	June 2017
4	A study on Nano Topological	<b>Dr.R.BHAV ANI</b>	Submitted	3,00,000	Management Fund, MannarThirumalaiNai cker College	July 2018

## X. Faculty Development Programme/Conference Seminar Attended:

- . State Level Seminar on Vistas in Mathematics at Sri S.R.N.M College 9<sup>th</sup> February 2013
- . National Level Seminar on Applicable Mathematics and Mathematical Models at M .S .N .P Meenakshi Women's College 28<sup>th</sup> December 2013
- . State Level Seminar Emerging Trends in General to Topology at N.S.College of Arts and Science 24<sup>th</sup> January 2014
- . Faculty Development programme on the theme of Emerging Trends in General Topology at Nadar Saraswathi College of Arts and Science, January 2014
- . National Level Seminar on Applications in Fuzzy Mathematics and Fractal Geometry at The American College 21<sup>st</sup> February 2014

- . National Level Seminar on Women Empowerment – Milestones and Challenges at S.V.N College 08<sup>th</sup> October 2015
- . International Level Seminar on Women are the Architects of Society K.L.N College 05<sup>th</sup> March 2016
- . National Level Seminar on Recent Advances in Pure and Applied Mathematics at Arul Anandar College 13<sup>th</sup> February 2017
- . International National Level Seminar on Research Process Engineering Effective and For Quantitative Research at G.T.N College 28<sup>th</sup> February 2017
- .
- . National Level Webinar on Stay At Home , Save lives Pledge at Ministry of Electronics and Information Technology 30<sup>th</sup> March 2020
- . National Level Webinar on Safety Against Covid 19 Certificate of Commitment 30<sup>th</sup> March 2020
- . National Level E Quiz on Covid 19 Pandemic General Awareness at Chandigarh Group of College 10<sup>th</sup> April 2020
- . National Level E Quiz on Impact of Covid 19 in Global Economy at Khadir Mohideen College 11<sup>th</sup> May 2020
- . National Level Seminar on Online Mathematics Quiz on Linear equation in One Variable at S.P.S.P.M Junior College 22<sup>nd</sup> May 2020
- . National Level Seminar E Quiz on Numerical Methods at Government College for Women 23<sup>rd</sup> May 2020
- . National Level Seminar on E Quiz by Department of Mathematics at Sengunthar Arts and Science College 26<sup>th</sup> May 2020
- . National Level Webinar on Qualitative Analysis of Differential Equations and its Applications at G.T.N Arts College 27<sup>th</sup> May 2020
- . National Level Webinar on Recent Research Directions

in Distance in Graphs at AyyaNadar JankiAmmal  
College 28<sup>th</sup> May 2020

- . National Level Webinar on Fuzzy Logics and its Application at SRM TRP Engineering College 29<sup>th</sup> 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 3<sup>rd</sup> June to 05<sup>th</sup> June 2020
- . National Level Online FDP on Introduction to fuzzy sets and its Generalization at Mepco Schlenk Engineering College 10<sup>th</sup> June 2020
- . National Level Webinar on Polynomials associated with Graphs at Tirunelveli Dakshina Mara Nadarsangam College 15<sup>th</sup> June 2020
- . International Webinar on fourth State of matter and its Application at G.Venkataswamy Naidu College 15<sup>th</sup> June 2020
- . National Level Webinar on Graph Embedding at Don Bosco College of Arts and Science 15<sup>th</sup> June 2020
- . National Level E Quiz on Investment Management at Saraswathi Narayanan College 17<sup>th</sup> June 2020
- . National Level Webinar on Edge Colouring in Graphs at Popes College (Autonomus) 18<sup>th</sup> 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 18<sup>th</sup> June 2020
- . National Level Webinar on statistics and Data Analysis at KPR Institute of Engineering and Technology 19<sup>th</sup> June 2020
- . National Level Webinar on Some New Direction in Graph Theory at S.T. Hindu College 19<sup>th</sup> June 2020

- . National Level Online Quiz on General Awareness at Tirunelveli Dakshina Mara Nadarsangam College 19<sup>th</sup> June 2020
- . National Level Webinar on Mind Set Management at The Standard Fireworks Rajaratnam College For Women 20<sup>th</sup> June 2020
- . National Level Webinar on Mathematical Analysis And Topology at G.Venkataswamy Naidu College 20<sup>th</sup> June 2020
- . National Level Webinar on Recent Trends in Graph Theory at Government Arts College from 22<sup>nd</sup> June 2020 to 24<sup>th</sup> June 2020
- . National Level English On line Quiz at Adhiparasakthi College of Engineering from 24<sup>th</sup> June 2020 to 30<sup>th</sup> June 2020
- . National Level E Quiz on Maths GK at Trinity College for Women 26<sup>th</sup> June 2020
- . National Level E Quiz on Maths in Data Science at Arul Anandar College from 26<sup>th</sup> June 2020 to 30<sup>th</sup> June 2020
- . International Level Webinar on Fractional system with Rossenblatt Process and Poison Jumps – Optimal at KPR Institute of Engineering and Technology 27<sup>th</sup> June 2020
- . National Level E Quiz on Mathematics at Thavatiru Santhalinga Adigalar Arts and Science College 28<sup>th</sup> June 2020
- . National Level Webinar on Recent Trends in Mathematics at Indian Institute of Technology 29<sup>th</sup> June 2020
- . National Level E Quiz on Mathematical Statistics at Saraswathi Narayanan College from 1<sup>st</sup> July 2020 to 4<sup>th</sup> July 2020
- . National Level Webinar on Optimal Control of Partial Differential Equations and Application at Indian Institute of Technology 3<sup>rd</sup> July 2020
- . National Level Webinar on Mind Archives What it



Conceives at G.T.N Arts College 4<sup>th</sup> July 2020

- . National Level Webinar on UngalKanavuMaipada at SFR College 6<sup>th</sup> July 2020
- . National Level E Quiz on Basic Linear Algebra at Virudhunagar Hindu Nadar's Sethukumara Nadar College(Autonomus) 6<sup>th</sup> July 2020
- . National Level E Quiz on Genius of Mathematics at Mangayarkarasi College of Arts and Science 8<sup>th</sup> July 2020
- . National Level Webinar on Soft Compting By Soft Sets at Don Bosco College of Arts and Science 10<sup>th</sup> July 2020
- . International Webinar on Resents Trends in Mathematics at Government Arts College from 10<sup>th</sup> July 2020 to 11<sup>th</sup> July 2020
- . National Level Webinar on Object Recognition Yolo/Mobile Net/Cloud at Khalsa College for Women 10<sup>th</sup> July 2020
- . National Level Webinar on Creative Digital Testing Materials at Tamil Nadu Teachers Education University 11<sup>th</sup> July 2020
- . National Level Webinar on Online Test For Effective Virtual Teaching and Learning at Stella Matutina College of Education 11<sup>th</sup> July 2020
- . National Level Webinar Series on Application of Mathematics at KPR Institute of Engineering and Technology from 6<sup>th</sup> July 2020 to 11<sup>th</sup> July 2020
- . National Level E Quiz on Quantitative Aptitude (Problems on Ages) For Placements And Competitive Exams at Yadava College 13<sup>th</sup> July 2020
- . National Level Webinar Knowledge Series on Horizons in Research at Tamil Nadu Teachers Education University from 13<sup>th</sup> July 2020 to 17<sup>th</sup> July 2020
- . International FDP On Prominence of Mathematics in Diverse Sectors at Hindustan College of Engineering and Technology 15<sup>th</sup> July 2020

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

#### **XI. Academic Responsibilities (MTNC):**

<b>S.No</b>	<b>Name of position</b>	<b>From</b>	<b>To</b>
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	Till Date
5	Women's Hostel Warden	2016	2019
6	Calender Committee Convenor	2018	Till Date
7	Autonomy Committee Co-Convenor	2020	Till Date

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

- . A One Day Faculty Development Programme on 4<sup>th</sup> March 2017
- . Two days Workshop on "Preparation for UGC CSIR NET Examination in Mathematics ." on 22<sup>nd</sup> and 23<sup>rd</sup> Sep , 2017
- . National Level Webinar on Online Teaching ,Learning and Assessment from 23<sup>rd</sup> October 2017 to 24<sup>th</sup> October 2017
- . National Level Faculty Development Programme on

e-Content Development and Digital Tools  
from 2<sup>nd</sup> March 2018 to 3<sup>rd</sup> March 2018

- . One Day Workshop on Technicalities of Writing Research Proposal on 29<sup>th</sup> June 2018
- . National Level Faculty Development Programme on IPR , Skill Development Programmes , Innovations , Patents And Setting up Incubations Centres on 22<sup>nd</sup> 2019
- . One Day Faculty Development Programme on Promotion of API Score and CAS Filing on 2<sup>nd</sup> March 2019
- . A One Day Capacity Building Programme on Outcome Based Education On 28<sup>th</sup> Aug 2019
- . One Day Faculty Development Programme on Training and Production Workshop on prospects of Outcome Based Curriculum On 9<sup>th</sup> 2019
- . A One Day Workshop on Research Writing and Publications : Theory and Practice on 19<sup>th</sup> Oct , 2019
- . Faculty Development Programme on Promotion of API Score and Career Advancement Scheme on 3<sup>rd</sup> March 2020
- . A One Day Faculty Development Programme on 21<sup>st</sup> Century Skills on 5<sup>th</sup> March 2020
- . A One Day Faculty Development Programme on Quality Assurance and Sustenance in Higher Education on 11<sup>th</sup> March 2020
- . National Level E Workshop Cum E Quiz on Positive Thoughts and Ideal Life 28<sup>th</sup> May 2020
- . National Level E Quiz on Library and Information Science Life 29<sup>th</sup> May 2020
- . National Level E Quiz on Palam Tamil Illakkiyam 30<sup>th</sup> May 2020
- . National Level E Quiz For NET / SET Preparation in Physical Education 31<sup>st</sup> May 2020
- . National Level E Quiz on Fundamental Physics 1<sup>st</sup> June 2020

