


## PROFILE

<b>Name</b>		<b>DR.M.GILBERT RANI</b>		
<b>Department</b>	MATHEMATICS			
<b>Designation</b>	ASSISTANT PROFESSOR			
	15.05.83			
	8220301177			
<b>Email</b>	gilbertrani@aactni.edu.in			
<b>Teaching Experience</b>	<b>UG: 6</b>	<b>PG: 3</b>		

### Recognised Educational Qualifications

S. No.	QUALIFICATION	INSTITUTION	BOARD/ UNIVERSITY	YEAR OF PASSING	GRADE
1	Ph.D	V.O.C College, Tuticorin. (Under <b>Tamil Nadu Government Stipend for Research</b> )	Manonmaniam University, Tirunelveli.	2012	
2	M.Phil	Alagappa University, Karaikudi	Alagappa University, Karaikudi	2008	'O' Grade ( <i>University Third Rank</i> )
3	M.Sc.,	V.V.V College, Virudhunagar.	Madurai kamaraj University, Madurai	2006	'O' Grade ( <i>University Third Rank</i> )
4	B.Sc.,	Idhaya College, Sarugani	Madurai kamaraj University, Madurai	2004	'O' Grade

## Work Experience

S.No	Name of the Institution/Organisation	Designation	Nature of Work	Period
1.	Thassim Bheevi AbdulKadhar College for Women, Kilakarai.	Assistant Professor	Teaching	1 years
2.	Fatima Michael college	Assistant Professor	Teaching	6 months
3.	Arul Anandar College	Assistant Professor	Teaching	2014 June onwards

## Publications (Contributions in Journals/Edited Books/Proceedings)

Title of the Paper	Name of the Journal/Book/Proceedings	Whether Journal/Book/Proceedings	Volume and No	Page Nos	ISSN/ISBN No
Domination in Soft Graphs	Journal of Mathematical Archieve	Journal	Vol.6 No.3, 2015	222-226	ISSN 2229-5046
On NS-Topological Spaces	International Journal of Current	Journal	Spl.Issue, 2017	2017	ISSN:2455-5429,UGC-47722

---

Challenges And Barriers For Women In Politics Using Rough eural Network Model	International Journal of Advanced Mathematics	Journal	V.1 , N.1, 2017	pp. 43 to 48	
Introductionon NanoBijective Soft Topological Spaces	Mathematical Sciences International				
On Multigranular Rough Soft Set	Journal of Annals of Pure and Applied	Journal	Vol.15, Issue.2,	pp.351-356,	ISSN:2279-087X
RoughSoft	International journal of Pure and Applied		Vol.117, Issue.20,	pp.289-	
Neighbourhood Rough Set in Decision Making	International journal of Pure and Applied	Journal	Vol.117, No.14,	pp.29-34	ISSN:1311-8080
NanoMultiset Topological Spaces	Mathematical Sciences International	Journal	Vol.7, Issue.2,	2018	ISSN:2278-8697

---

On Multigranular Rough Multiset in the Mathematical Sciences	International Research Journal	Journal	Vol.7, Issue.2,		ISSN:2278-8697
Hesitant Fuzzy Connected and Hesitant Fuzzy Trees	International journal of Pure and Applied Mathematics	Journal	Vol.18, Issue.10,	pp. 121-134	
Introduction on bipolar soft Multiset topological spaces	International Journal for Advanced Research in	Journal	Vol.5, Issue.3,		
On multigranular nonmultiset Topological spaces	International Journal for advanced research in applied sciences	Journal	Volume 5, issue 3,		
On Weakly Supra Generalized Closed Set and its Maps.	Mathematical Sciences International	Journal	Vol.7, Spl. Issue, 2018, pp:75-81,	2018	

---

A new notion of Soft Multiset	Mathematical Sciences International	Journal	Vol.7, Issue.2,	2018	ISSN:2278-8697, UGC.J.no:43832
Hesitant Fuzzy Connected and Hesitant Fuzzy Trees	International Journal of Pure and Applied Mathematics	Journal	Vol.118,No.10	PP:121-134	ISSN 1311-8080
Supra Semi Normal Spaces and some supra Maps	International Journal of Mathematical Archive	Journal	Vol.9,No.5		ISSN:2229-5046
Supra Maps VIA Supra g--closed sets	International Journal of Mathematical Archive	Journal	Vol.9,No.5		ISSN:2229-5046
On new Supra Topological Spaces	International Journal of Mathematical Archive	Journal	Vol.9,No.5		ISSN:2229-5046

---

Fuzzy Binary Soft set theory	Journal of Interdisciplinary Cycle Research	Journal	Volume XI, Issue XI, November ISSN NO: 0022-1945	2019	
On nano bijective soft multiset Topological spaces	Journal of Interdisciplinary Cycle Research	Journal	Volume XI, Issue XII, December	2019	
Binary Bitopological Spaces	Our Heritage	Journal	Vol-68- Issue-1- January - 2020	2020	ISSN: 0474-9030

### Reviewer Details

Name of the Journals	Year
1. (Editor) International Journal of Advanced Research in Mathematics and its Applications Online	2020
2. Boletim da Sociedade Paranaense de Matemática	2017

### Ph.D Guideship Details

Subject	University	Guideship Id No	No.of Scholars pursuing

---

<b>MATHEMATICS</b>	<b>Madurai Kamaraj University</b>	<b>1920</b>	<b>03</b>
--------------------	---	-------------	-----------

### Conference/Workshop/Seminar – Organised

<b>S. NO.</b>	<b>NAME OF THE SEMINAR/CONFERENCE/WORKSHOP</b>	<b>ORGANISING CAPACITY</b>	<b>SPONSOR</b>	<b>PERIOD/ DATE</b>
1.	Mini-MTTS 2019 (Mathematical Talent Search and Training Program)	Local Coordinator	NBHM (National Board of Higher Mathematics) (Sanctioned Amount <b>3.2Lakhs</b> )	16 <sup>th</sup> Sep2019 – 21 <sup>st</sup> Sep2019

### Papers presented in Seminars/Conferences/Workshop

<b>Level of Seminar/Conference/Workshop</b>	<b>Title of the Seminar/conference/Workshop</b>	<b>Title of the Paper</b>	<b>Organising Institution</b>	<b>Date</b>
National	Emerging Trends in Mathematics	On NS-Topological Spaces	A.V.V.M Sri Pushpam College, Poondi	28.07.2017

---

State Level	Recent Trends in Applied Mathematics	Soft Rough Resolvable Topological Spaces	VHNSN College, Virudhunagar	30.08.2017
State Level	Recent Trends in Applied Mathematics	Gender Mainstream in India: A View Via Blocked Fuzzy Cognitive Maps	VHNSN College, Virudhunagar	30.08.2017
State Level	Recent Trends in Applied Mathematics	CECH-Soft Rough Closure Topological Spaces	VHNSN College, Virudhunagar	30.08.2017
State Level	Recent Trends in Applied Mathematics	Dominations in Soft Rough Graphs	VHNSN College, Virudhunagar	30.08.2017
State Level	Recent Trends in Applied Mathematics	On Quasi Supra sg-open and Quasi Supra sg-closed Maps	VHNSN College, Virudhunagar	30.08.2017
National	Recent Developments in Pure and Applied Mathematics	Lacks of Learning Outcomes of Our Higher Education Creates Social Entrepreneurship	Karpagam University, Coimbatore	15.09.2017
International	Collaborative Research in	A Study on Fuzzy Rough Closure	KG College of	23.09.2017

---



	Mathematical Sciences- ICCRMS 17	Spaces	Arts and Sciences, Coimbatore	
International	Mathematical Computer Engineering	Information Decision Table using Tolerance Relation with Rough Sets	VIT University, Chennai	03.11.2017 & 04.11.2017
International	Mathematical Impacts in Science and Techonolgy	Some dominations on soft Rough Graphs	Bannari Amman Institute of Technology	17.09.2017 & 18.09.2017
International	Advances in Mathematical Sciences	On Bijective Soft Multiset in the	VIT University, Vellore	01.12.2017 & 03.12.2017
International	Mathematical Methods and Computation	On Multi-Granular Rough Soft Set	Jamal Mohamed College, Trichy	11.12.2017
National	Recent Trends in Applied Mathematics	Supra Bijective Soft Topological Space	Jayaraj Annappa College for Women, Periyakulam	13.12.2017
International	Advances in Mathematics and	Introduction NanoBijective Soft	V.V.Vanniaperumal	14.12.2018 -

---

	Computer Science	Topological Spaces	College for Women, Virudhunagar	16.12.2018
National	Mathematical Techniques and Applications(NCMTA 2018)	Some More Domination on Rough Soft Graph	SRM Institute of Science and Technology, Kattankulathur	05.01.2018 & 06.01.2018
International	Conference on Computing Sciences (ICCS 2018)	On Multigranular Rough Multiset	Loyola College, Chennai	08.01.2018 & 09.01.2018
National	Conference on “Modern Mathematics & It’s Applications”	A New Notion of Rough Soft set	The American College	22.01.2018 & 23.01.2018
National	Conference on Mathematical Applications in Algebraic Graph Theory, Optimization Technique	On Multigranular Nano Multiset Topological Spaces	Mother Teresa Women’s University, Kodaikanal	02.02.2018
National	Conference on Mathematical Applications in Algebraic Graph	On Bipolar Soft Multiset Topological Spaces	Mother Teresa Women’s University,	02.02.2018

---

	Theory, Optimization Technique		Kodaikanal	
--	-----------------------------------	--	------------	--

### Resource Person

Whether Speaker/Moderator/Panellists	Title of the Presentation	Title of the Seminar/Conference/Workshop	Organizing institution and Place	Date
Speaker	Mathematical Research in Fuzzy Set, Rough Set and Soft Set	<b>International Level one week online Research Enrichment Program</b>	Research Culture Society & Govt. Science College, Chhota Udepur	27.7.2020-31.07.2020 (Five Days)
Speaker	Data Analysis Using MS-Excel	<b>Short Term Training Programme</b>	Research Culture Society	24.08.2020-28.08.2020 (Five Days)
Speaker	MATLAB for Scientific Research	<b>Short Term Training Programme</b>	Research Culture Society	1.09.2020-5.09.2020(Last Two Days)
Speaker	Effective Tools for Online Teaching	<b>Hands on Training on online Teaching Practices</b>	Periyar E.V.R. College, Tiruchirappalli	26.08.2020
Speaker	Effective cyberspace Tools in	<b>FDP</b>	Tamilnadu Teachers Education University	17.08.2020-19.08.2020 (Three

---

	teaching, Learning and Assesment of Science and Engineering			Days)
Speaker	Interactive e-Teaching, Learning and Assessment Tools in Cyberspace	<b>Faculty Training Program (Sponsored by DBT)</b>	V.V.Vanniaperumal College for Women(Autonomous),Viruthunagar.	19.10.2020
Speaker	MatLab-A Prime Look	<b>Students Enrichment Program</b>	G.VNC(Autonomous), Kovilpatti	23.10.2020
Speaker	Rough set: A Tool for Qualitative Knowledge Data Discovery	National Webinar	Yadhava College(Autonomous),Madurai	04.07.2020
Speaker	Soft Computing by Softsets	National Webinar	DonBosco College of Art and Science, Keela Erak	10.07.2020
Speaker	A Fundamental Object of Algebraic Topology	National Webinar	V.O.Chidambaram College, Thoothukudi	03.08.2020
Speaker	Adults: a soft target of Cyber Crime	Association Acitivities	St.Xaviers' College, Palayamkottai	12.11.2020
Speaker	Basic ideas of MatLab	Students Enrichment Program	G.Venkataswamy Naidu College(Autonomous), Kovilpatti	6.11.2020

---

### Seminars/conferences/Workshops Attended

Title of the Seminar/conference/Workshop	Level of Seminar/Conference/Workshop	Organising Institution	Date and Place	AOI
National Workshop	Relevance of Mathematics in Scientific Computing and Engineering Discipline	B.S.AbdurRehman Crescent University, Chennai.	12.05.2017 & 13.05.2017	
international	13 <sup>th</sup> Annual ADMA Conference and Graph Theory Day-XIII	SSN College of Engineering, Kalavakkam	08.06.2017 to 10.06.2017	
state	Workshop on Institutional Score Card for Gender Mainstreaming	ACPR and collaboration with Commonwealth of Learning, Canada at AAC, Karumathur	22.06.2017 & 23.06.2017	
International Seminar	on Applied Mathematics	Fatima College, Madurai	21.08.2017	

---

State Level	Seminar on “The role of IQAC in Enhancing the Quality Sustenance of Higher Education”	S.V.N College, Madurai	17.03.2018	
-------------	---	------------------------	------------	--

### E Content Created

Title of the Content	Type of Content	Link
Introduction of Metric Space	Video Lecture and Study Material in Pdf	<p>Video Link:  <a href="https://drive.google.com/file/d/1QbWoWpAypZAFsXq04-cFkBVA4hhbm-7g/view?usp=sharing">https://drive.google.com/file/d/1QbWoWpAypZAFsXq04-cFkBVA4hhbm-7g/view?usp=sharing</a></p> <p>Study Material:  <a href="https://drive.google.com/file/d/1P2HPAeTggO7k vTgitl57GcA5dExIwtII/view?usp=sharing">https://drive.google.com/file/d/1P2HPAeTggO7k vTgitl57GcA5dExIwtII/view?usp=sharing</a></p>
Examples of metric Space	Video Lecture and Study Material in Pdf	<p>Video link:  <a href="https://drive.google.com/file/d/1u1_n9H5DibdURYk_8XD_jjW5_yu-KUsa/view?usp=sharing">https://drive.google.com/file/d/1u1_n9H5DibdURYk_8XD_jjW5_yu-KUsa/view?usp=sharing</a></p> <p>Material Link:</p>

---

		<a href="https://drive.google.com/file/d/1Zovhv-PA32ZmG4yPA4FFhSMOpAEB-LmW/view?usp=sharing">https://drive.google.com/file/d/1Zovhv-PA32ZmG4yPA4FFhSMOpAEB-LmW/view?usp=sharing</a>
Abel's Theorem for Radius of Convergence	Study Material in pdf	<a href="https://drive.google.com/file/d/1P2HPAeTggO7kvTgitl57GcA5dExIwtII/view?usp=sharing">https://drive.google.com/file/d/1P2HPAeTggO7kvTgitl57GcA5dExIwtII/view?usp=sharing</a>

### Patients Obtained / Applied

<b>Title</b>	<b>Application Number</b>	<b>Publication Date</b>	<b>Status</b>
Machine Learning based Automatic waste management for E-environment	202021053077 A	15/01/2021	Received
Design And Development Of Solar Power Based Electric Vehicle Charging Booths	2020103828		Applied

---

## Academic Positions held

Post	Institution	Period	AOI
Board of Study Member	V.V.Venniaperumal college for women	Since 2019	
External Question paper Setter	Meenakshi College for women, Chennai-24	Since 2019	
External Question paper Setter	G.T.N College, Dindugal	Since 2019	

## Achievements & Awards

- **Best NSS volunteer Award (2003)** got from Madurai Kamaraj University.
  - **Best Outgoing Student Award (2006) &**
  - **College Gold Metal (2007)** received from V.V.V.College(Autonomous).
  - **Excellent Resource Person Award (2020)** from Research Culture Society.
  - Lifetime Member of Indian Academic Researchers Association.
  - **Indo Asian- Maurice Fréchet Distinguished Scientist Award** received at “International Dialogue on UN Sustainable Goals – Quality Education- The Future”
-