

**Name** : Dr. R. Anitha Cruz  
**Designation** : Assistant Professor  
**Department** : Mathematics PG  
**Qualification** : M.Sc., M.Phil., B.ed., Ph.D.,  
**Experience** : 6 years  
**Research** : 9 Years  
**Area of Specialization(s)** : Topology  
**Email(OfficialID)** : anithacruz@psgrkcw.ac.in



### Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Mathematics	Bharathiar University	2019
M.Phil.	Mathematics	Bharathiar University	2014
M. Sc.	Mathematics	Nirmala College for Women	2012
B.Sc.	Mathematics	Nirmala College for Women	2010

### Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/AgencyName	Year
<b>Certification</b>	Introduction to Artificial Intelligence (AI)	Coursera	2023
<b>Diploma</b>	PGDOR	Bharathiar University	2011
<b>Certification</b>	B.Ed.- Mathematics	Appasamy College of Education	2010
<b>Diploma</b>	DCA	CSC	2008

### Research:

- A Novel Approach of Cubic Sets In Neutrosophic Soft Topological Setting.
- Generalized Regular Beta Closed Sets And Maps In Topological Spaces.
- Seperation Properties In Cech Spaces

## Publications:

- Published 8 research papers in peer-reviewed international journals:
  - Presented 4 papers in national and international conferences
1. Neutrosophic Soft Cubic Refined Set, Neutrosophic sets and systems, 73(2024), 244-356.  
[DOI:10.5281/zenodo.13989213](https://doi.org/10.5281/zenodo.13989213)
  2. Neutrosophic Spherical Cubic Sets, Neutrosophic Sets and Systems, 63(2024) 30-48.  
[DOI:10.5281/zenodo.10531736](https://doi.org/10.5281/zenodo.10531736)
  3. On neutrosophic b# closed sets in neutrosophic topological spaces, Advances in Applied Research 12 (2020), 55-63, [DOI: 10.5958/2349-2104.2020.00010.8](https://doi.org/10.5958/2349-2104.2020.00010.8)
  4. Neutrosophic Soft Cubic Topological Space, Neutrosophic Sets and Systems 23(2018) 23-44.  
DOI: 10.5281/zenodo.2156005 .
  5. Neutrosophic Soft Cubic Set on BCK/BCI Algebra, Elixir International Journal 117(2018), 50360-50369.
  6. More on R-union and R- intersection of Neutrosophic Soft Cubic Set, Mathematical Journal of Interdisciplinary Sciences 6(2)2018, 93- 117.
  7. More on P-union and P- intersection of Neutrosophic Soft Cubic Set, Neutrosophic Sets and Systems 17 (2017), 74-87.
  8. Neutrosophic Soft Cubic Set, International Journal of Mathematics Trends and Technology 46(2) (2017), 88-94.
  9. Neutrosophic Soft Cubic Refined Set, Mediterranean Conference on Neutrosophic Theory, (MeCoNeT2024), held in Messina (Italy), 2024.
  10. Some Properties of Hyperspaces in a Compact Hausdorff Space With Vietoris Topology, International Conference On Pure & Applied Mathematics, 2024
  11. Contrast Intensification in Colour Images using Pythagorean Fuzzy Sets, International Conference On Computational And Applicable Mathematics (ICCAM 2024),
  12. Pythagorean Fuzzy Hyper Graphs, International Conference On Pure & Applied Mathematics, 2024

## Patent

S. No	Name of the Faculty	Title of the Invention	Application N o.	Date of Filing	Publication Date
1.	Dr.R. Anitha Cruz	IOT BASED WATER QUALITY SENSING DEVICE	177355	25.04.2024	05.08.2024

## Academic Contribution

- Reviewer for international journals (NSS and TWMS J. App. Eng. Math.)
- Acting as a Coordinator for UMIS since 2022 onwards
- Department Syllabus Incharge
- Department BOS member

## Workshops / FDPs Attended

1. ANRF Power Grant sponsored Workshop on “Recent Developments in Mathematics”[ PSGR Krishnammal College for Women] [2025]
2. DST-Serb-CRG sponsored Two days Workshop on “Recent Advancements in Systems and Control Theory”[ Bharathiar University] [2023]
3. Online Five-Day Faculty Development Programme on "Mathematical Foundations of Artificial Intelligence and Machine Learning"[Sacred Heart College][2025]
4. Seven Days International Faculty Development Programme on “Implications on Emerging Computing Technologies”[Hindusthan College of Arts and Science][2024].
5. “A Five-Day National Level Online FDP on Beyond Boundaries: Driving Innovation in Research” [Auxilium College][2024]
6. A Five day International Virtual Faculty Development Program on “Mathematics and its Application” [PSGR Krishnammal College for Women, Coimatore] [2024]
7. Five day Virtual International Faculty Development Program on “Exploration of Mathematics in Emerging Fields”[PPG College of Arts and Science] [2024]
8. workshop on Cultivating Innovative Ideas for Young Entrepreneurs [PSGR Krishnammal College for Women, Coimatore] [2023]
9. Two Days FDP on “Design Thinking” [IQAC, PSGR Krishnammal College for Women, Coimatore] [2022]
10. National Level Faculty Development Programme on “Emerging Innovative Trends in Quality Research Paper Writing and Publishing in Right Journals”[Sri G.V.G Visalakshi College For Women][2022]
11. Faculty Development Programme on “Artificial Intelligence and Data Science” [PSGR Krishnammal College for Women, Coimatore] [2020]
12. One day International Virtual Workshop on LoRaWAN Demonstration and Intellectual Property Rights-Patent”[ Easwari Engineering College] [2020]
13. National Level Online Interdisciplinary Faculty, Development Programme on “Inclusive Indian Traditions for a Holistic Global Education” [PSGR Krishnammal College for Women, Coimatore] [2020]
14. Faculty Development Programme on “Online Teaching Methods” [ Nirmala College for Women] [2020]
15. Online Faculty Development Programme on “Fuzzy Sets and Systems” [Patrician College of Arts and Science] [ 2020].
16. Faculty Development Programme on “Real Analysis ”[PSGR Krishnammal College for Women, Coimatore] [ 2020]
17. Faculty Development Programme on “Art of Effective Teaching [ GLOBALFTI. PVT.LTD][2020].
18. One day Workshop on “The Art of Defining Research Problem Questions and Awareness on Intellectual Property Rights” [PSGR Krishnammal College for Women, Coimatore] [2019]
19. National Conference on “Future Trends in Topology and its Application” [PSGR Krishnammal College for Women, Coimatore] [2020]

**Contact Details**

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- LinkedIn (Optional): [linkedin.com/in/anitha-cruz-b684951ab](https://www.linkedin.com/in/anitha-cruz-b684951ab)