

**STAFF
PROFILE**

- 1) Name : **Dr.K.KARUPPAYI**
2) Department : Mathematics
3) Designation : Assistant professor
4) Address

For correspondence:

Providence College For Women (Autonomous),
Coonoor, The Nilgiris - 643103

Permanent :

12/746, A4C Gurumuhilagam,
Kalampuzha Road, Gudalur,
The Nilgiris – 643212

5) Phone No.

Office : 0423-2234084

Residence :

Mobile : 9442674693, 7530028360

6) E-mail : karuppayimutharasu@gmail.com

7) Academic Qualifications:

Qualification	Programme	University	Year
Ph.D.	Mathematics	Bharathiar	16.04.2015
B.Ed.	Mathematics	Bharathiar	2011
P.G.D.C.A. (Post Graduate Diploma in Computer Application)	-	Bharathiar University	2009
M. Phil.	Mathematics	Manonmaniam Sundaranar	1997
PG	Mathematics	Manonmaniam Sundaranar	1995
UG	Mathematics	Madurai Kamaraj	1993

8) Additional Qualifications:

Diploma/Vocational/ Certification/ Swayam / MOOCs	Area of Specialization	Institution/University/ Agency Name	Year
P.G.D.C.A. (Post Graduate Diploma in Computer Application)	-	Bharathiar University	May 2009

9) **Career profile:**
Current:

Organization	Designation	Duration
Providence College For Women, Coonoor, The Nilgiris	Assistant Professor	26.10.2015 to 23.11.2019
Providence College For Women, Coonoor, The Nilgiris	Assistant Professor, Senior Grade	24.11.2019 to Till Date

Previous:

Organization	Designation	Duration
Bharathiar University Arts and Science College, Gudalur, The Nilgiris	Assistant Professor of Mathematics	03.07.2004 – 25.10.2015

10) **Participation in Orientation Programme / Refresher Course / Short term course /
FDP**

S.No	Participation	Organization	Date	Days
1.	Orientation Programme	Bharathiar University Coimbatore.	15.05.2008 to 11.06.2008	28
2.	NSS Orientation course	Avinashilingam University, Coimbatore.	20.09.2012 to 26.09.2012	7
3.	Orientation Programme	Bharathiar University Coimbatore.	17.11.2017- 14.12.2017	28
4.	Refresher course	Bharathiar University Coimbatore.	13.02.2019- 05.03.2019	21
5.	Refresher course	Mizoram University	20.07.2021- 02.08.2021	14
6.	Refresher course	Hyderabad University	12.09.22- 24.09.22	13

11) Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph.D.	-	2
M. Phil.	7	-

12) Research Publications:

1. Modified MMA Method For Solving Multi-Objective Transportation Problem With Mixed Constraints Using Fermatean Fuzzy Sets, Chinese Journal of Computational Mechanics, Vol. 5 (Oct 2023), 567–578.
Website Link: <https://jslxxb.cn/index.php/jslxxb>. (**Scopus**)
2. An Integer Linear Programming Formulation for the Various Dominating Parameters, International Journal of All Research Education and Scientific, Methods (IJARESM), Vol .10 (12), Dec 2022, Impact Factor : 7.429 Link (www.ijaresm.com) (**Peer reviewed**)
3. Application of neutrosophic soft set in Agriculture using Decision Theory Under Uncertainty, Journal of Human University (Natural Sciences), Vol.48. No.10(Oct 2021), 1040-1044.(**Scopus**)
4. Application of neutrosophic soft set in medical diagnosis, Turkish Journal of Computer and Mathematics Education, Vol 12 No.1s(April2021), 718-721. (**Scopus**)
5. On the Folding of Finite Generalized Fuzzy Topological Space by Directed Fuzzy Graph, International Conference on Advances in Mathematics and Computer Science 2017, ICRAITSE-17.
6. Generalized Fuzzy Topology on Fuzzy Graphs Using Contraction Edge Operations, Twelfth All India Conference of KAAS – 2017, ISBN: 978-93-81658-18-15.
7. Note On *- Connected in Generalized Topology With Hereditary Classes, International Conference on Recent Advancements in Information Technology Science and Engineering (ICRAITSE-17) (**UGC CARE**), 2017 Vol.6 ISSN 2278-8697.
8. On σ -H Open sets and σ -H continuous functions in GTS with Hereditary classes, International Conference on Mathematics 2017, ISSN 2278-8697.
9. On fuzzy graphs and fuzzy GTS with Hereditary Class, International Conference on Mathematics 2017, 2017 Vol.6 (2) ISSN 2278-8697.
10. On α -H continuous and α -H open functions in GTS with Hereditary classes, International Journal of Mathematical Archive, 2014 Vol. 5(6), Page No. 289 – 293.(**Peer reviewed**)
11. On δ -H continuous functions in GTS with hereditary Classes, International Journal of Mathematical Archive, 2014 Vol. 5(4), Page No. 345 – 351.
12. A note on δ -H sets in GTS with Hereditary classes, International Journal of Mathematical Archive, 2014 Vol. 5(1), Page No. 226 – 229.
13. A Note on R-H open sets in GTS with hereditary classes, International Journal of

Mathematical Archive, 2014 Vol. 5(1), Page No. 1 – 5.

14. On decomposition of continuity & complete continuity in GTS with hereditary, International Journal of Advanced Studies in Topology (**Scopus**), 2014 Vol. 5(2), Page No. 18 – 26.
15. Some subsets of GTS with hereditary classes, International Journal of Advanced Studies in Topology (**Scopus**), 2013 Vol. 5(1), Page No. 25 – 33.
16. On modifications of generalized topologies via hereditary classes, National – Journal of advance research in pure Mathematics, 2010 Vol. 2(2), Page No. 14 -20 .

13) Conference / Seminar / Symposium / workshop organized

Year	Name of the Conference / Seminar / Symposium /workshop	Date From – To
2024-2025	Webinar on A Day with Mathematics	31 st January 2025
2023-2024	Webinar on Genetic Code Boolean Algebra	19 th February 2023
2022-23	R- Programming Workshop and GRETl	30 th September 2022
2021-22	Essentials of Probability and Statistics Using R- Software : Level-I (30 Hours -Online)	December 2021
	R- Programming Workshop	30 th September 2021
2020-21	Software tools for Mathematical Education (FDP)	30 th August to 5 th September 2021
	Gender Sensitization Programme	20 th Feb 2021
	Graph Theory	2 nd September 2020
	Fluid Dynamics and Its Application	6 th January 2020
2019-20	Gender Sensitization Programme	1 st October 2019
2017-18	International Conference on Mathematics 2017	4 th -5 th August 2017

14) Presentation in Conference / Seminar / Symposium

International Level

1. International Conference on Analysis and Number Theory-2022, Department of Mathematics Ayya Nadar Janaki Ammal College, Sivakasi, Ramco Institute of Technology, Rajapalayam and The Standard Fireworks Rajaratnam College for Women, Sivakasi Applicationa of Neutrosophic Soft Set in Sports, 27th – 29th October 2022.

2. International virtual Conference on Bridging innovative Trends in Mathematics Engineering And Technology, Bannari Amman Institute of Technology, Sathiyamangalam, Erode, Application of Neutrosophic Soft set in Medical Diagnosis, 18th and 19th December 2020.
3. International Conference on Recent advancements in information technology, Science and Engineering, APC Mahalakshmi college for women, Thoothukudi, On the folding of finite generalized fuzzy topological space by directed fuzzy graph, 14th -15th December 2017.
4. International Conference on Mathematics 2017, Providence college for women, On σ -H Open sets and σ -H continuous functions in GTS with Hereditary classes, 4th -5th August 2017.
5. International Conference on Mathematics 2017, Providence college for women, On fuzzy graphs and fuzzy GTS with Hereditary Class, 4th -5th August 2017.

National Level - Nil

State Level - Nil

15) Participation in Conference / Seminar / Symposium

International Level

1. International Webinar on Role of Mathematics in Science, Engineering and Technology, Department of Mathematics, Providence College for Women(Autonomous) Coonoor and Providence College for Women, Calicut , 14th September, 2023.
2. International Webinar on Emerging Trends in Mathematics, PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam, 13th September, 2023.

National Level

1. Department of Data Science and PG & Research Department of Computer Science, Providence College for Women (Autonomous), Coonoor “Latest Innovations in Science and Technology (LIST – 2K25)” on 22nd **August 2025.**

2. National Level Workshop on ‘Igniting Women’s Entrepreneurial Journey’ organized by PG & Research Department of Economics, Providence College for Women, Coonoor, 24th October 2024.
3. National Level Workshop on Green Economy and Sustainability in India – Issues and Challenges, Providence College for Women, Coonoor, 20th and 21st March 2019.
4. MHRD-National Digital Library of India, Providence College for Women, Coonoor, 2nd August 2019.
5. National Level Seminar Food safety, Social responsibility and Environmental Sustainability, Providence College for Women, Coonoor, 15th and 16th February 2018.
6. One day workshop on Latex, Kongunadu Arts and Science College, Coimbatore, 9th August 2017
7. Prerequisites of Research, Providence College for Women, Coonoor, 4th February 2016.
8. Curriculum Development, Bharathiar University and Arts and Science college, Gudalur, 27th March 2015.
9. National Seminar On Algebra, Topology & Their applications, Ayya Nadar Janaki ammal college- Sivakasi, 11st & 12nd March 2013
10. National Conference On Advances In Applied Mathematics, Bharathiar University- Coimbatore, 20th & 21st January 2011.
11. Quality Assurance & Assessment in Higher Education, Bharathiar University- Coimbatore, 19th March 2010

State Level

1. Regional Workshop cum Orientation Programme of Unnat Bharat Abhiyan organized by the Regional Coordinating Institute, Tamil Nadu Agricultural University, Coimbatore on 3rd July 2025 at Bishop Heber College, Trichirapalli.
2. Faculty Developed Programme “E-Content Development”, Department of Mathematics Sri G.V.G. Visalakshi College for Women (Autonomous) Udumalpet, on 12.02.2024 to 16.02.2024 (5 days).
3. State level Seminar on “The Role Of IQAC in Higher Education Institutions : Issues & Challenges” Internal Quality Assurance Cell, Providence College for Women (Autonomous) Coonoor, on 3rd January 2024
4. Faculty Training Programme “Mastering the Art of Interpersonal Skills Through Building

Meaningful Relationships & Techniques in Google Sheets”, Internal Quality Assurance Cell, Providence College for Women(Autonomous) Coonoor, on 5th October 2023.

5. Faculty Developed Programme “Student Centric and Interactive teaching Strategies using Technological tools” PG and Research Department of Computer Science – Providence College for Women ,Coonoor on 17.07.2023 to 21.07.2023(5 days).
6. State Level Orientation for NSS Program Officers under Naan Mudhalavan scheme organized by the School Education Department in association with Higher Education Department, Government of Tamil Nadu on 28th March 2023 at Bharathidasan University, Tiruchirapalli.
7. State Level Workshop on Indian Economy an Oasis in the Desert - Stock Market,Department of Mathematics, Providence College for Women (Autonomous), Coonoor, 16th March 2023.
8. State Level Webinar On Reliability Estimations Via cut sets Department of Mathematics, Providence College for Women (Autonomous), Coonoor, 15th March 2023.
9. State Level Webinar On Gender Sensitization and mass media Department of Mathematics, Providence College for Women (Autonomous), Coonoor and K.Ramakarshnan College of Engineering, Samayapuram, Trichy, 11th February 2023.
10. State Level Workshop on R-Programming, Department of Mathematics, Providence College for Women (Autonomous), Coonoor, 30th September 2022.
11. State Level Seminar On Advance Trends in Mathematical Sciences, Dr. N.G.P. Arts and Science College- Coimbatore, 17th February 2012.
12. State Level Seminar On Modern Trends in Mathematical Sciences, Dr. N.G.P. Arts and Science College- Coimbatore , 5th March 2010.

19. Resource person / Invited Speaker/Session Chair – Conference/Seminar/Workshop

- Chairperson in the International conference on Mathematics held in Providence College for Women, Coonoor from 4th -5th August 2017.
- **Member of Board of studies**

- Member of BOS, Providence College for Women, Coonoor on 2024
- Member of BOS, Providence College for Women, Coonoor on 2024
- Member of BOS, Providence College for Women, Coonoor on 2023
- Member of BOS, Providence College for Women, Coonoor on 2022
- Member of BOS, Providence College for Women, Coonoor on 2021
- **Membership in professional bodies- Member of AUT**

➤ **Institutional responsibilities**

Academic Year	Name of the Committee / Activities	Co-ordinator / Member
2025-2026	1. UBA	Co-ordinator
	2. SGRC	Member
2024-2025	3. UBA	Co-ordinator
	4. SGRC	Member
2023-2024	1. NSS	Coordinator
	2. SGRC	Member
	3. UBA	Coordinator
2022-2023	1. NSS	Programme Officer
	2. SGRC	Member
	3. UBA	Member
	4. Admission Committee	Member
	5. Out Reach	Member
2021 -2022	1 . NSS	Programme Officer
	2. Village Adoption and Extension Activities	Coordinator

	3. SGRC	Member
	4. UBA	Member
	5. Admission Committee	Member
	6. Out Reach	Member
2020-2021	1. Library Committee	Member
	2. Placement Committee	Member
	3. DQAC Committee	Member
	4. Admission Committee	Member
	5. Extension Activities Oodadamvayal	Member
2019-2020	1. Library Committee	Member
	2. Placement Committee	Member
	3. DQAC Committee	Member
	4. Admission Committee	Member
	5. Extension Activities Oodadamvayal	Member
2018-2019	1. Library Committee	Member
	2. Placement Committee	Member
	3. DQAC Committee	Member
	4. Admission Committee	Member
	5. Extension Activities OOdadamvayal	Member
	6. Magazine Committee	Member
	1. Library Committee	Member

2017-2018	2. Placement Committee	Member
	3. Extension Activities Oodadamvayal	Member
2016-2017	1. Library Committee	Member
	2. Placement Committee	Member
	3. Extension Activities Oodadamvayal	Member
2015-2016	1. Library Committee	Member
	2. Placement Committee	Member
	3. Extension Activities Oodadamvayal	Member

4. Awards and Achievements- Women of Wonder -2023-24

5. Other Highlights

University Representative / External Examiner

1. External Examiner for B.Sc. Mathematics University Practical Examinations, at Emerald Heights College for Women, Uthagamandalam, on 18.03.2024
2. External Examiner for B.Sc. Mathematics University Practical Examinations, at Govt. Arts & Science College, Gudalur on 10.03.2020-11.03.2020
3. University Representative of Bharathiar University at KPS College of Arts & Science, Kotagiri on 06.04.2017-18.04.2017.
4. University Representative of Bharathiar University at Bharathiar University Arts & Science College ,Gudalur on 17.11.2016-29.11.2016.

