Dr. Carmel Pushpa Raj J, M.Sc., B.Ed., M.Phil., Ph.D,

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Employment

18, June 2012 –	Till D	Date 🧻 Assistant Professor of Mathematics,
		St .Joseph's College (Autonomous), Tiruchirappalli – 620 002
Education		
2015 – 2020		Ph.D. (Mathematics), Bharathidasan University , Tiruchirappalli (<i>Part Time</i>) Thesis Title: "Studies on Fixed Point Theorems in Metric Spaces, b-Metric Spaces and Complex Valued b-Metric Spaces"
2011 – 2012		M.Phil (Mathematics), Loyola College (Autonomous), Chennai – 34 (86.3 % - First class with Distinction)
		Dissertation Title: "A study on graph labeling".
2010 – 2011		B.Ed (Mathematics), St.Xavier's College of Education (Autonomous) , Palayamkottai, Tirunelveli – 2 (76.6 % - First class with Distinction)
2008 – 2010		M.Sc (Mathematics), St. Joseph's College (Autonomous), Tiruchirappalli - 2 (83.42 % - First class with Distinction) Project Title: "Network of Queues".
2005 – 2008		B.Sc (Mathematics) , St. Joseph's College (Autonomous) , Tiruchirappalli - 2 (81.54 % - First class with Distinction)
2003 - 2004		HSC, St. Antony's Higher Secondary School, Kosavapatty, Dindigul – 624 304 (82.75 %)
2001 – 2002		SSLC, St. Antony's Higher Secondary School, Kosavapatty, Dindigul – 624 304 (92.6 %)

Additional Qualification

December 2018	Passed CTET (Paper –II), CBSE, Delhi
February 2016	Passed the State Eligibility Test for Lectureship 2016 (TNSET-2016)
August 2014	Passed TNTET (Paper –II), TRB, Chennai
June 2011	Passed CTET (Paper –II), CBSE, Delhi
2008 – 2009	PGDCSA, St. Joseph's College (Autonomous), Tiruchirappalli - 2 (73.44 % - First class)

Research Publications

- Carmel Pushpa Raj J, Arul Xavier A, Maria Joseph J & M. Marudai. (2022). Common fixed point theorems under rational contractions in complex valued extended b -metric spaces. *International Journal of Nonlinear Analysis and Applications* (*IJNAA*), 13 (2022) 1, 3479-3490 DOI: <u>https://doi.org/10.22075/ijnaa.2020.20025.2118</u>.
- V. Vairaperumal , J. Carmel Pushpa Raj , J. Maria Joseph and M. Marudai (2021). Common fixed point theorems under rational contractions in complex valued extended b-metric spaces. *Nonlinear Functional Analysis and Applications* , Vol. 26, No. 4 (2021), pp. 685-700. DOI: <u>https://doi.org/10.22771/nfaa.2021.26.04.03</u>
- Arul Xavier A, Carmel Pushpa Raj J, Maria Joseph J and M. Marudai (2021). Common fixed point theorems in complex valued extended b-metric spaces under rational contractions. *Journal of Physics: Conference Series* 1964 (2021) 022028. DOI: <u>https://doi.org/10.1088/1742-6596/1964/2/022028</u>
- J. Carmel Pushpa Raj , V. Vairaperumal , J. Maria Joseph and E. Ramganesh (2020), Common fixed point theorem for mapping with the generalized weakly contractive conditions in metric spaces. *Journal of Mathematical and Computational Sciences*, 10 (2020), No. 3, 572-583. DOI: <u>https://doi.org/10.28919/jmcs/4487</u>
- J. Carmel Pushpa Raj, V. Vairaperumal, J. Maria Joseph and E. Ramganesh (2019) Fixed Point and Common Fixed Point Theorems in Complex Valued b- Metric Spaces, Advances in Mathematics: Scientific Journal, 8 (2019), no.3, 772–780, DOI: https://doi.org/10.37418/amsj

- Dayana Roselin D , Carmel Pushpa Raj J , Maria Joseph J and M. Marudai (2019). Best Proximity Point Theorems on Dislocated and Dislocated Quasi b-metric spaces, *Adalya Journal* 8 (2019) – Issue no - 9 1351 – 1356.
- Dayana Roselin D , Carmel Pushpa Raj J , Maria Joseph J and M. Marudai (2019). Fixed point and Common fixed point Theorems on Complex Valued b-metric spaces, *Infokara* Research, 8(2019) Issue no - 9, 882-892.
- Carmel Pushpa Raj J , Maria Joseph J (2014), Best Proximity Point Theorems For Generalized Proximal Contractions . *Jamal Academic Research Journal (JARJ)* Volume (1), 279-283.

Papers Presented

- 1. Paper Entitled "Fixed Point and Common Fixed Point Theorems in Complex Valued b-Metric Spaces", in NCMSA-2020, St. Joseph's College, Tiruchirappalli-620 002.
- 2. Paper entitled *"Fixed point theorems on Multi Valued Mappings in b- metric spaces"* in ICMCE-2015 at VIT-Chennai.
- 3. Paper entitled "*Common fixed point theorem on partial metric space*" in NCMSA-2014 at St. Joseph's College, Tiruchirappalli 620 002
- 4. Paper entitled "*Best Proximity Point Theorems for Generalized Proximal Contractions*" in ICOMAC-2014 at Jamal Mohamad College, Tiruchirappalli 620 020

Resource Persons:

December 2023 🧻	Young Student Scientist Programme – 2023
	TNSCST & Extension Department, St. Joseph's College, Tiruchirappalli –2
July - Dec 2023 🧻	A series of lectures on Business Mathematics for CA aspirants St. Joseph's College, Tiruchirappalli – 620 002
July - Dec 2022 📋	A series of lectures on Business Mathematics for CA aspirants St. Joseph's College, Tiruchirappalli – 620 002

Seminars / Conferences / Workshops Organized

February 2024 **T** National Conference on Recent Developments in Pure and Applied Mathematics (NC-RDPAM24) – (Co-Convener) St. Joseph's College, Tiruchirappalli – 620 002

Seminars / Conferences / Workshops / Webinar Programmes attended

May 2024	Hi Impact 15 days Faculty Development Programme St. Joseph's College, Tiruchirappalli – 620 002
February 2024	National Conference on Recent Developments in Pure and Applied Mathematics (NC-RDPAM24) St. Joseph's College, Tiruchirappalli – 620 002
December 2023	Faculty Development Programme on Academic Research in Science St. Joseph's College, Tiruchirappalli – 620 002
November 2023	Faculty Development Programme on Patents and Consultancy IQAC, St. Joseph's College, Tiruchirappalli – 620 002
October 2023	Faculty Development Programme on Intricacies of Writing for Research Publications and Projects IQAC, St. Joseph's College, Tiruchirappalli – 620 002
June 2023	Orientation program for the Teaching Faculty IQAC, St. Joseph's College, Tiruchirappalli – 620 002
March 2023	Faculty Development Programme in Mathematics, St. Joseph's College, Tiruchirappalli – 620 002
February 2023	Faculty Development Programme on LOCF - A reformative Roadmap towards Excellence St. Joseph's College, Tiruchirappalli – 620 002
December 2022	Two day Orientation program for young Professors, <i>Jesuit Higher Education Commission, Jesuit Madurai Province,</i> St. Xavier`s College of Education (Autonomous), Palayamkottai - 627 002.
March 2022	International conference on Mathematical Sciences & Applications (ICMSA 2022) St. Joseph's College, Tiruchirappalli – 620 002

February 2022	Seminar on Convergent Sequence: A Geometrical Approach , St. Antony's College of Arts And Sciences for Women Thamaraipadi, Dindigul.
December 2021	Seminar on Hybrid teaching and Learning, St. Joseph's College, Tiruchirappalli – 620 002
October 2021	International Webinar on Multiplicative Inverse Functional Equations and their Applications, St. Joseph's College of Arts and Science, Cuddalore – 607 001
October 2021	Seminar on Preparing E-Content for MOOCs on SWAYAM St. Joseph's College, Tiruchirappalli – 620 002
September 2021	Seminar on Open Educational Resources - Search, Identify, Repurpose and Create your OER St. Joseph's College, Tiruchirappalli – 620 002
May 2021	Two day online workshop on Latex School of Advanced Sciences, VIT Chennai.
August 2020	State Level Webinar on E-Content Development for Teaching Mathematics, The MDT Hindu College, Tirunelveli
August 2020	National Level Webinar on Time Scale: A Survey with Analysis Cauvery College for Women, Trichy
August 2020	National Level Webinar on Designing Finite State Automata Holy Cross College, Trichy-2
July 2020	National Online Workshop on Empirical Research: Tools & Techniques XIBA, St. Xavier's College, Palayamkottai – 627 002
July 2020	Webinar On Introduction To Automata Theory Idhaya College For Women, Sarugani
July 2020	National Webinar on ICT Tools for Teaching and Learning IQAC, St.Xavier's College, Palayamkottai
June 2020	Online FDP on Inclusive Procedures and Process in Assessment & Accreditation by NAAC, St. Joseph's College, Tiruchirappalli – 620 002

June 2020	Webinar on Applications of Nonlinear Analysis to Real World Problems St. Mother Theresa Engineering College, Thoothukudi-628 102
June 2020	National Webinar for Aspirants of CSIR Mathematics Ayya Nadar Janaki Ammal College, Sivakasi
June 2020	Webinar on the Journey with In-Know Yourself & Know the World St. Joseph's College, Tiruchirappalli – 620 002
June 2020	Webinar on Problem Solving Techniques in Algebra & Analysis St. Joseph's College, Tiruchirappalli – 620 002
June 2020	Online FDP in Pure & Applied Mathematics Jamal Mohamed College, Tiruchirappalli - 20
June 2020	Online Workshop on Mathematical Analysis (MATANA-2020) Loyola College, Chennai – 600 034
June 2020	Online FDP on Linear Algebra and Research Indicators Loyola College, Chennai-34
June 2020	Webinar on Key Issues in Research Methodology GTN Arts College, Dindigul
June 2020	National Webinar on Fractals via Fixed Point Theory Jayaraj Annapackiam College for Women, Periyakulam, Theni
May 2020	Webinar on CSIR-NET/SET Examinations in Mathematical Analysis Urumu Dhanalakshmi College, Tiruchirappalli – 19
May 2020	Webinar on Latex-Learning by Doing Idahaya College for Women, Kumbakonam
May 2020	Workshop on Introduction to SageMath ICT Mumbai & MTTS Trust.
May 2020	Online Workshop on Mathematical Analysis for CSIR-NET/SET/GATE Sree Narayana Guru College, Coimbatore-641 105
January 2020	National Conference on Mathematical Science and Application (NCMSA – 2020), St. Joseph's College, Tiruchirappalli – 620 002
September 2019	International Colloquium on the Challenges of Higher Education in The 21st Century, St. Joseph's College, Tiruchirappalli – 620 002

February 2019	One day Workshop on Real Analysis Department Of Mathematics, National College, Tiruchirappalli-1
January 2019	International Conference on Discrete Mathematics (ICDM-2019) St. Joseph's College, Tiruchirappalli – 620 002
December 2016	National Conference on Applications of Mathematics - Recent Trends (4NCAM-RT), St. Joseph's College, Tiruchirappalli – 620 002
January 2016	National Conference on Advancements in Mathematical Sciences (NCAMS-2016), St. Joseph's College, Tiruchirappalli – 620 002
December 2015	International Conference on Mathematical Computer Engineering ICMCE-2015, The School of Advanced Sciences, VIT Chennai
January 2015	National Conference on Discrete Mathematics St. Joseph's College, Tiruchirappalli – 620 002
March 2013	National Conference on Mathematical Sciences and Applications St. Joseph's College, Tiruchirappalli – 620 002
February 2014	International Conference on Mathematical Methods and Computation Jamal Mohamed College, Tiruchirappalli – 620 020
November 2013	Pedagogical Training For Mathematics Teachers (PTMT 2013) NBHM, MTTS Trust, SSN College of Engineering, Chennai
August 2013	One day Workshop on Latex St. Joseph's College, Tiruchirappalli – 620 002
March 2012	Instructional Workshop on Hypergraphs and Matroids Department of Mathematics, Annamalai University, Annamalai Nagar
December 2011	National symposium on Mathematical Methods and Applications (NSMMA-2011) Department of Mathematics IIT Madras, Chennai
June 2009	Summer Training Programme in Mathematics Department of Mathematics, University of Madras, Chennai.

Administration

2012 - 2016	🧧 Assistant Director, New Hostel,
	St. Joseph's College, Tiruchirappalli – 620 002.
2018 - 2019	Association President, Department of Mathematics (Shift – II)
	St. Joseph's College, Tiruchirappalli – 620 002.

Prizes and Medals

2002 & 2004	School Academic Prize – SSLC & HSC.
2008	College Academic Prize – First in Elective
2014, 2016, 2019 & 2024	College Management Award – 100% Attendance
2023	Rev. Dr. A. Albert Muthumalai, SJ Best Mathematics Research Paper Award
Strengths	
	🗍 Desire to learn new things;
	Can teach effectively;

- Smart working; Analytical skills;
- Problem solving ability;
- 🗍 Flexibility & adaptability.

Personal

Age: 37;
 D.O.B: 15.07.1987
 Nationality: Indian
 Gender: Male;
 Marital status: Married.

Interests

Reading
Badminton

References

- **Dr. T. Rajaretnam, Ph.D,** Associate Professor (Rtd), Department of Mathematics, St.Joseph's College (Autonomous), Tiruchirappalli-620 002, Tamil Nadu.
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