PROFILE

Name (Fr./Dr./Mr./Mrs./Ms.)   : Dr.A. LEEMA MARIA PRAKASAM

Department   : Mathematics

Educational Qualification   : M.Sc., M.Phil., Ph.D., SET., PGDCA

S. No.	Degree / Diploma	Subject / Main	Name of the College / University
1.	U.G.	MATHEMATICS	HOLY CROSS COLLEGE (AUTONOMOUS), BHARATHIDASAN UNIVERSITY.
2.	P.G.	MATHEMATICS	ST.JOSEPH'S COLLEGE(AUTONOMOUS), BHARATHIDASAN UNIVERSITY.
3.	M.Phil.	MATHEMATICS	LOYOLA COLLEGE(AUTONOMOUS), UNIVERSITY OF MADRAS.
4.	Ph.D.	MATHEMATICS	ST.JOSEPH'S COLLEGE(AUTONOMOUS), BHARATHIDASAN UNIVERSITY.
5.	NET/CSIR/SLET	SET	MOTHER THERESA UNIVERSITY, KODAIKANAL.
6.	PGDCA	COMPUTER APPLICATION	ISS COMPUTER EDUCATION, TRICHY.

Aided ☐   **Management**   Shift I ☐ √   Shift II ☐

Teaching Experience at Holy Cross College   :14 Years

Teaching Experience outside Holy Cross College: 3 Years

Total Teaching Experience   **:**17 Years

Position held in other Colleges / Institutions / Industries worked:

Designation	Department	Colleges/ Institutions / Industries worked	Date	
			From	To
Lecturer	Mathematics	New Prince Shri Bhavani Arts & Science College, Chennai	27.06.2007	30.04.2008
Lecturer	Mathematics	St.Peter's Institute of Higher Education and Research,Chennai.	18.06.2008	31.07.2010

E-lessons developed:

Academic Year	Teaching Aids prepared & used	e-content prepared
2015-2016	Smart Board	Partial Differential Equations
2018-2019	Power Point	Partial Differential Equations
2019-2020	Google Platform	Introduction to Complex Analysis
2023-2024	Power Point	Types of Matrices

Resource Person :

Academic Year	Name of the Programme	Date	Details
2020	INDEP-2020	09.01.2020	Judge for the event Poster Making, St.Joseph's College, Trichy

Other Honors /Awards/Achievements/ Responsibilities:

Recognition/Awards received

Academic Year	Government / Private	Name of the award
2022	Private-PATENT-Apeejay School of Management, New Delhi.	Best Indian Research Award 2022

Fields of Specification under the Subject / Discipline:
1. Functional Analysis
2. Real Analysis

Subjects specialized in Teaching : (UG,PG)

UG:

- Analytical Geometry of Three Dimensions and Vector Calculus
- Algebra and Trigonometry
- Real Analysis, Complex Analysis, Linear Algebra
- Differential Equations, Laplace Transforms and Fourier Series
- Laplace Transforms, Partial Differential Equations and Fourier Series

PG:
- Optimization Techniques

- Ordinary Differential Equations
- Mathematical Analysis
- Partial Differential Equations and Integral Transforms
- Topology
- Functional Analysis

Journal / Articles Published: (Attach the list using the format given below) (18):

1: Dr.U.Karuppiah and A.Leema Maria Prakasam .,(2013).Fixed Point Theorems in G-MetricSpaces.JP Journal of Fixed Point Theory and Applications(8):165-191

2: Dr.U.Karuppiah and A.Leema Maria Prakasam .,(2014).Common Fixed Point Theorem of Generalized contractions on Partial Metric Spaces,International Journal of Pure and EngineeringMathematics(2 III):59-70.

3: Dr.U.Karuppiah and A.Leema Maria Prakasam .,(2015). Some Common Fixed Point Theorems for Multi-valued Maps in Complete Metric space, International Journal of Mathematical Sciencesand Engineering Applications(9):157-178.

4: Dr.U.Karuppiah and A.Leema Maria Prakasam .,(2015).New common Fixed Point Theorems for Multi-valued and Single-valued Maps in Complete Metric Space, International Journal of Pure and Engineering Mathematics (3 I):263-281.

5: Dr.U.Karuppiah and A.Leema Maria Prakasam .,(2015).Some common Fixed Point Theorems for Non-self Mappings(ψ , φ)-weak Contractive Conditions of Integral Type InSymmetric Spaces, Far East Journal of Mathematical Science 98(1):15-35.

6: Dr.U.Karuppiah and A.Leema Maria Prakasam .,(2016). Fixed Point Theorems for (α ,ψ , ξ) Multi-valued Mappings, International Journal of Mathematical Sciences and Engineering Applications 10(II):19-30.

7: Dr. A. Leema Maria Prakasam, Dr. A. Mary Priya Dharsini and Dr.A. Jennie Sebasty Pritha (2020). Some Fixed Point Theorems for (α_z ,ψ_x , ξ_y) Rational type Contractive mappings, MalayaJournal of Matematik :5(4), 619-624.

8: Dr. A. Leema Maria Prakasam, and Dr. M. Gunaseelan (2020). Common Fixed Point theorem using CLR and E. A properties in Complex Partial b -metric spaces, Advances in Mathematics: Scientific Journal :9(2020), (5), 2773-2790.

9: Dr. A. Leema Maria Prakasam, Dr. A. Mary Priya Dharsini and Dr.A. Jennie Sebasty Pritha (2020)., Fixed Point Theorem for Integral Type F-Contractions in Complex Valued Gb- metric spaces, European Journal of Molecular & Clinical Medicine:7(9), 3190-3196.

10: Dr. A Mary Priya Dharsini, Dr. A. Leema Maria Prakasam and Dr.A. Jennie Sebasty

Pritha (2020)., Fixed Point Theorem in Multiplicative Rectangular b-metric spaces, Malaya Journal of Matematik :5(1), 348-350.

11: Dr. A. Jennie Sebasty Pritha , Dr. A. Mary Priya Dharsini and Dr. A. Leema Maria Prakasam,(2020)., A Fixed Point Theorem for JSC-Contraction Type Mappings on Group Theory European Journal of Molecular & Clinical Medicine:7(11), 3190-3196.

12: Dr. A Mary Priya Dharsini, Dr. A. Jennie Sebasty Pritha and Dr. A. Leema Maria Prakasam (2021)., A note on $(\emptyset, A, B)$ Contractive Results using Comparable functions on b-Metric spaces, Advances and Applications in Mathematical Science :20(6), 1041-1051.

13: Dr. A. Leema Maria Prakasam, and Dr. M. Gunaseelan (2021)., Common fixed Point Theorems in Complex Partial b-metric spaces, Advances and Applications in Mathematical Science :20(5), 793-805.

14: Dr. A Mary Priya Dharsini, Dr. A. Jennie Sebasty Pritha and Dr. A. Leema Maria Prakasam (2021).,Fixed Point Theorem with Integral-Type Inequality on Multiplicative Metric Spaces, NVEO- Natural Volatiles & Essential Oils: 9849-9860.

15: Dr. A. Leema Maria Prakasam, Dr. A. Mary Priya Dharsini and Dr.A. Jennie Sebasty Pritha (2021)., Common Fixed Point Theorems in R-Partial B- Metric Spaces, NVEO- Natural Volatiles & Essential Oils: 8(4),9838-9848.

16: Dr. A. Jennie Sebasty Pritha , Dr. A. Mary Priya Dharsini and Dr. A. Leema Maria Prakasam,(2021)., Some Fixed Point Theorem for F-Contraction in a complete partial b-Metric Space, NVEO- Natural Volatiles & Essential Oils: 9870-9877.

17: Dr. M. Gunaseelan, Dr. A. Leema Maria Prakasam, Lakshmi Narayan Mishra and Vishnu Narayan Mishra(2021), Application and Fixed point theorems for Orthogonal Generalized F-Contraction mappings on O-complete Metric space,Nonlinear Functional Analysis and Applications, 26(5), 903-915.

18: Ms.J.Rani. Dr. A. A. Leema Maria Prakasam(2024)., Fixed Points of oerators with mulitiplicative closed graphs on bi-polar b-multiplicative metric spaces, Advanced Fixed point theory: 14, Article ID(57).

Conference/Seminar/Workshop/ Training Programme attended - Academic & General:

S.No.	Theme	Place	International / National / State level	Year	Resource Person / Paper Presentation/ Participation
1.	EMERGING TRENDS IN WOMEN LEADERSHIP IN INDIA	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPA LLI – 620002.	NATIONAL	2011	PARTICIPATION
2.	MATHEMATICAL SCIENCES AND APPLICATIONS	ST. JOSEPH'S COLLEGE (AUTONOMOUS), TRICHY.	NATIONAL	2014	PARTICIPATION
3.	GRAPH THEORY AND OPERATIONS RESESARCH	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI – 620002.	NATIONAL	2014	PARTICIPATION
4.	NATIONAL CONFERENCE ON DISCRETE MATHEMATICS	ST. JOSEPH'S COLLEGE (AUTONOMOUS), TRICHY.	NATIONAL	2015	PARTICIPATION
5.	NATIONAL CONFERENCE ON ADAVANCES IN APPLIED MATHEMATICAL SCIENCES	CAUVERY COLLEGE FOR WOMEN TRICHY	NATIONAL	2016	PARTICIPATION
6.	PRESENT TRENDS IN APPLICATIONS OF MATHEMATICS	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI – 620002.	INTERNATIO NAL SEMINAR	2018	PARTICIPATION

7.	PRESENT TRENDS IN APPLICATIONS OF MATHEMATICS	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI – 620002.	INTERNATIO NAL SEMINAR	2019	PARTICIPATION
8.	MATHEMATICAL METHODS AND COMPUTATION	JAMAL MOHAMED COLLEGE, TRICHY.	INTERNATIO NAL	2020	PRESENTATION
9.	FDP ON NEW EPOCH IN SOFTWARE LEARNING	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI – 620002.	NATIONAL	2021	PARTICIPATION
10.	ARTIFICIAL INTELLIGENCE AND IOT – HEURISTIC TRANSDISCIPLINA RY PERSPECTIVES	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPAL LI – 620002.	NATIONAL	4.7.2020 - 10.7.2020	PARTICIPATION
11.	CAPACITY BUILDING OF YOUNG TALENT IN TRANSDISCIPLINA RY RESEARCH FORA SUSTAINABLE DEVELOPMENT OF SOCIETY	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPAL LI – 620002.	NATIONAL	13.7.2020 - 18.7.2020	PARTICIPATION
12.	FACULTY ORIENTATION WEBINAR SERIES ON RISK MANAGEMENT IN TIMES OF CRISIS	IQAC, HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPAL LI – 620002	NATIONAL	12.06.2020	PARTICIPATION
13.	FDP ON VIRTUAL TEACHING – A PARADIGM SHIFT FROM OFFLINE TO ONLINE TEACHING	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPAL LI – 620002	NATIONAL	15.06.2020 17.06.2020 19.06.2020	PARTICIPATION
14.	A VIRTUAL FDP ON "DIGITAL PEDAGOGIES FOR ACHIEVING SUSTAINABLE DEVELOPMENT GOALS IN EDUCATION"	ALL INDIA ASSOCIATION FOR CHRISTIANHIGHER EDUCATION & LADY DOAK COLLEGE	NATIONAL	6.10.20222 - 11.10.2022	PARTICIPATION

15.	AN INTRODUCTION TO LINEAR ALGEBRA FOR CSIR/SET EXAM	PAAVAI ENGINEERING COLLEGE, NAMAKKAL	NATIONAL	2021	PARTICIPATION
16.	PRESENT TRENDS INAPPLICATIONS OF MATHEMATICS	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI – 620002	NATIONAL	2023	PARTICIPATION
17.	ONE DAY-INSERVICE FACULTY WORKSHOP ON MANIPULATION AND ANALYSIS OF DATA IN SPSS	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI – 620002.	--	2024	PARTICIPATION
18.	RECENT TRENDS IN APPLICATIONS OF MATHEMATICS	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI – 620002.	INTERNATIONAL	2024	PARTICIPATION
19.	THE EVOLVING LANDSCAPE: EXPLORING POSSIBLITIES AND CHALLENGES FOR THE GIRL CHILD IN A DYANMIC WORLD	HOLY CROSS COLLEGE (AUTONOMOUS), TIRUCHIRAPPALLI – 620002.	NATIONAL	2024	PARTICIPATION
20.	INTERCOLLEGIATE COMPETITION "MATHSTAR 24"	BON SECOURS COLLEGE FOR WOMEN, THANJAVUR	NATIONAL	2024	PARTICIPATION

Research Scholars Details:

S.No	Academic Year	Name of the Scholar	Ref. No
1.	2022	Mrs. J. Mercy Arokia Rani	16241/Ph.D. K1/ Mathematics/Part Time/Oct.2017/ Ist Ext./Date/ 19.10.2022
2.	2024	Mrs. N.Ganeswari	BDU2410182780794/Ph.D/Mathematics/Full Time/ Dated 07.03.2024
3.	2024	Mrs. Maria Merlin	BDU2410182780872/Ph.D/Mathematics/Full Time/ Dated 23.05.2024

Research activities – Papers Presented:

Academic Year	Name of the Conference	National / International	Details
2012	National Conference on Frontiers in Analysis and Differential Equations	National	Bharathidasan University, Tiruchirappalli.
2020	International Conference on Mathematical Methods and Computation	International	Jamal Mohammed College, Tiruchirappalli.
2020	Analysis and Computation in Pure and Applied Mathematics	International	Bon Secours College For Women,Thanjavur.

Outside colleges:

Academic Year	Details
2021	Question Paper setter, Department of Mathematics, SriSankara Arta and Science College, Kanchipuram.

2020	Question Paper setter, Department of Mathematics, Seetha Lakshmi Ramasamy College, Trichy.
2022	Question Paper setter, Department of Mathematics, Nirmala College for Women, Coimbatore.
2022	External Examiners for PG Viva-voce –Jamal Mohammed College, Department of Mathematics, Trichy.
2023	Doctoral Committee Member, Ph. D Programme, Department of Mathematics Bharathidasan University, Tiruchirappalli.
2023	External Examiner, St.Joseph's College, Department of Mathematics,Trichy.
2023	Question Paper setter, Department of Mathematics, Selvam Arts and science College, Nammakkal.
2023	Question Paper setter, Thassim Beevi Abdul Kader College for Women, Department of Mathematics, Kilakarai, Ramanathapuram.
2024	Question Paper setter, Department of Mathematics, St.Joseph's College, Trichy.

Any other contribution to the student community:

Academic Year	Details
2019-2020	Guest Lecture – Department of Audiology Speech Language Pathology, HCC for the Subject "Statistics".
2020-2021	Guest Lecture – Department of Audiology Speech Language Pathology, HCC for the Subject "Statistics".
2022-2023	Delivered speech on Motivational Session to the students.

PATENT PUBLISHED:

Academic Year	Details
2021	TITLE: Developing An Intelligent System Architecture For Extending Security Perspective By Using Innovative Technique In IOT Resource

	Systems PATENT APP.NO: 202141019203
	PUBLICATION DATE : 07.05.2021
2022	TITLE: A Neonatal Fitness Patch
	PATENT APP.NO: 202211026759
	PUBLICATION DATE :
	09.05.2022

Academic Responsibilities within college:

Academic Year	Details
2017-2018	Co-Ordinator (Shift-II), Department of Mathematics
2018-2019	Core Member of Noon-Meal Incharge
2019-2020	Core Member of Noon-Meal Incharge
2020-2021	Core Member of Noon-Meal Incharge
2018-2019	Member of CICRSD
2019-2020	Member of CICRSD
2020-2021	Member of CICRSD
2021-2022	Member of CICRSD
2022-2023	Member of CICRSD
2022-2023	Member of IIC
2022(Nov)-2023	Core Member of Exam Committee
2023-2024	Core Member of Exam Committee
2024-till date	Core Member of Exam Committee
2023-2024	Core Member of DOVE Department
2024-till date	Core Member of DOVE Department

Religion	**:**	CHRISTIAN
Residential Address:		Mr.A. AROCKIA SELVA RAJ,
		NO:49, JAYAM ILLAM,
		NARAYANA GARDEN,13th CROSS STREET,
		THALLAKUDI(PT), LALGUDI(TK), TRICHY(DT).
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