

Dr. F. Joy Beula

Assistant Professor

PG and Research Department of Mathematics

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Academic Profile:

S. No.	Degree / Diploma	Subject / Main	Name of the College / University	Year of Completion
1.	Ph.D.	Mathematics	St. Xavier's College (Autonomous), Palayamkottai	2024
2.	P.G.	Mathematics	St. Xavier's College (Autonomous), Palayamkottai	2020
3.	U.G.	Mathematics	Holy Cross College (Autonomous), Tiruchirappalli	2018

Teaching Experience:

- Working as assistant professor of Mathematics since June 2024 in Holy Cross College (Autonomous), Tiruchirappalli

Journal / Articles Published:

S.No.	Nature of the Journal	Details
1.	Peer Reviewed	A. Lourdusamy and F. Joy Beula, Some Results on Group S_3 Cordial Difference Labeling , Scienza Acta Xaveriana, 12(1), 2021, 01-08.
2.	Peer Reviewed	A. Lourdusamy, S. Jenifer Wency and F. Joy Beula, SDC Labeling on Zero Divisor Graphs , Scienza Acta Xaveriana, 12(2), 2021, 11-19.
3.	Scopus	A. Lourdusamy, E. Veronisha and F. Joy Beula, Group S_4 Difference Cordial Labeling for Certain Graphs , Journal of Mathematical Control Science, 17(2), 2021, 346-361.
4.	Peer Reviewed	A. Lourdusamy and F. Joy Beula, Further Results On Group S_3 Mean Cordial Labeling , Scienza Acta Xaveriana, 13(1), 2022, 83-94.

5.	Scopus	A. Lourdusamy, F. Joy Beaula and F. Patrick, On Tades of Certain Classes of Graphs , South East Asian Journal of Mathematics and Mathematical Sciences, 1, 2022, 241-245
6.	Web of Science	A. Lourdusamy, E. Veronisha, F. Joy Beaula, Group S_4 Difference Cordial Labeling , Indian Journal of Science and Technology, 15(32) , 2022, 1561-1568.
7.	Web of Science	A. Lourdusamy , E. Veronisha, F. Joy Beaula, Totally Magic Cordial Labeling on Zero Divisor Graphs , Advances and Applications in Mathematical Sciences , 21(12) , 2022, 6827-684.
8.	Scopus & Web of Science	A. Lourdusamy and F. Joy Beaula, “Total Absolute Difference Edge Irregularity Strength of Some families of Graphs” , TWMS Journal of Applied and Engineering Mathematics, 13(3), 2023, 1005-1012.
9.	Scopus & Web of Science	A. Lourdusamy and F. Joy Beaula, Further Results on Edge Irregularity Strength of Graphs , AIP Conference Proceedings, 2649, 2023, 0300051-0300056.
10.	Scopus	A. Lourdusamy, F. Joy Beaula and F. Patrick, Edge Irregularity Strength of some related graphs to T_p- tree , Jordan Journal of Mathematics and Statistics, 16(2), 2023, pp. 233-248.
11.	Scopus	A. Lourdusamy, F. Joy Beaula and F. Patrick, Total Absolute Difference Edge Irregularity Strength of T_p-tree graphs , Proyecciones Journal of Mathematics, 42(6), 2023, 1597-1614.
12.	UGC	A. Lourdusamy, F. Joy Beaula and I. Dhivviyanandam, Detour Pebbling Number of star related graphs , Industrial Engineering Journal, 52(4), 2023, 136-141.
13.	Scopus	A. Lourdusamy, F. Joy Beaula and F. Patrick On Tades of disjoint union of graphs , Ars Combinatoria, 157, 2023, 89-94
14.	Peer Reviewed	R. Azhagu Raj, F. Patrick, D. Jude, S. Jenifer Wency, F. Joy Beaula and I. Divyanadam, Assessing avian biodiversity in Swamithoppu saltpan with the fuzzy matrix approach , Journal of Mathematical Problems, Equations and Statistics, 4(1), 2023, 42-48.
15.	Scopus	A. Lourdusamy, E. Veronisha and F. Joy Beaula, Total 3-sum cordial labeling on zero divisor graphs , AIP Conference Proceedings, 2764, 2023, 030018.

16.	Scopus	A. Lourdusamy and F. Joy Beaula, On tades of transformed tree and path related graphs , Jordan Journal of Mathematics and Statistics, 17(1), 2024, 129 – 143.
17.	Scopus	A. Lourdusamy, F. Joy Beaula and F. Patrick, Hub Cover Pebbling Number , Ars Combinatoria, 160, 2024, 31-35.
18.	Scopus	A. Lourdusamy, F. Joy Beaula and F. Patrick, On Binary DCP Labeling , Journal of Combinatorial Mathematics and Combinatorial Computing, 122, 2024, 255-261.
19.	Conference Proceeding	A. Lourdusamy and F. Joy Beaula, Few Results on Tades of Graphs , International Conference Proceedings on Recent Developments in Pure and Applied Mathematics, 1, 2022, 241-245.

Research Activities – Papers Presented:

S.No.	Name of the Conference	National / International	Details
1.	The second international conference on Recent Trends in Applied and Computational Mathematics	International	Presented a paper entitled on “ Further Results on Edge Irregularity Strength of Graphs ” Organized by School of Applied Sciences, Department of Mathematics, Reva University, Bengaluru, India. 8 th -9 th October 2021.
2.	International Conference on Mathematical Science & Applications	International	Presented a paper entitled “ On TADES of Certain Classes of Graphs ” Organized by Department of Mathematics, St Joseph’s College (Autonomous), Tiruchirappalli. 9 th -11 st March 2022
3.	International Conference on Recent Developments in Pure and Applied Mathematics	International	Presented a paper entitled on “ Few Results on Tades of Graphs ” Organized by PG & Research Department of Mathematics, St. Xavier’s College, Palayamkottai . 19 th -21 st July 2022.
4.	International Conference on ‘Recent Trends in Applied Mathematics’	International	Presented a paper entitled on “ Detour Pebbling Number for star related graphs ” Organized by Department of Mathematics, Loyola College, Chennai. 24 th -25 th July 2023

5.	International Conference on Mathematical Science and Application	International	Presented a paper entitled on “ Programming Approach for sum divisor cordial labeling ” Organized by Dr. Bhimrao Ambedkar University, Agra 24 th - 26 th March 2023.
6.	International Conference on Applications of Mathematics in Data Science	International	Presented a paper entitled on “ Detour t-Pebbling Number of Star Related Graphs ” Organized by Department of Data Science and Mathematics, St. Xavier’s College, Palayamkottai. 27 th -28 th February 2024.

Conferences /seminars/ workshops - Attended:

S.No.	Title	National / International	Venue	Date
1.	National Seminar on Recent Developments in Mathematics	National	St. Xavier’s College (Autonomous), Palayamkottai.	11 th March 2019
2.	National Level Seminar on “Emerging Trends in Pure Mathematics”	National	Aditanar College of Arts and Science, Tiruchendur.	19 th August 2019
3.	State Level workshop on Recent Trends in Fourier Analysis	National	Sadakhthullah Appa College, Tirunelveli.	10 th September 2019
4.	Two Day National Workshop on “Pure and Applied Mathematics”	National	The Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli.	24 th & 25 th September 2019
5.	National Workshop On “Functional Analysis and its Application”	National	St. Xavier’s College (Autonomous), Palayamkottai.	13 th & 14 th February 2020
6.	Seminar on “Scholar Tips”	National	St. Xavier’s College (Autonomous), Palayamkottai.	22 nd January 2021
7.	4 th International Conference on ‘Current Scenario in Pure and Applied Mathematics’	International	Kongunadu Arts and Science College (Autonomous), Coimbatore	29 th & 30 th January 2021
8.	International Seminar	International	Department of	3 rd March 2021

	on ‘Contemporary Research in Graph theory’, Internal Quality Assurance Cell (IQAC)		Mathematics and Statistics, Shri Shankarlal Sundarbai Shasun Jain College for women, Chennai.	
9.	International Conference on ‘Recent Advancement in Mathematics’	International	PG and research Department of Mathematics, Sacred Heart College (Autonomous), Tirupattur.	9 th and 10 th April 2021.
10.	Online workshop on ‘Recent Trends in Domination and Graph Labeling’	International	Department of Mathematics, Ramanujam College, University of Delhi.	27 th May 2021 to 31 st May 2021
11.	National web conference on ‘Recent trends in graph theory’	National	PG & Research Department of Mathematics, St. Xavier’s College (Autonomous), Palayamkottai.	July 12 th and 13 th , 2021.
12.	Second international conference on ‘Recent Trends in Applied and Computational Mathematics’	International	School of Applied Sciences, Department of Mathematics, Reva University, Bengaluru, India.	8 th -9 th October 2021.
13.	Workshop on “Graph Theory Using Open Source Software (SAGE & R)”	International	Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai.	5 th March 2022.
14.	“International Conference on Mathematical Science & Applications”	International	Department of Mathematics, St Joseph’s College (Autonomous), Tiruchirappalli	9 th -11 th March 2022.
15.	International Conference on ‘Recent Developments in Pure and Applied Mathematics’	International	PG & Research Department of Mathematics, St. Xavier’s College, Palayamkottai.	19 th -21 st July 2022.

16.	International Conference on 'Recent Trends in Applied Mathematics'	International	Department of Mathematics, Loyola College(Autonomous), Chennai.	24 th -25 th February 2023.
17.	International Conference on 'Mathematical Sciences and Application'	International	Dr. Bhimrao Ambedkar University, Khandari Campus, Agra	24 th -26 th March 2023.
18.	International Conference on 'Mathematics and Informatics'	International	Research Department of Computer Science, St. Xavier's College, Palayamkottai	29 th March 2023.
19.	One day National Seminar on 'Recent Trends in Pure and Applied Mathematics'	National	P.G. and Research Department of Mathematics, Aditanar College of Arts and Science, Tiruchendur	21 st September 2023.
20.	Workshop on Research Publications in Scopus Indexed Journals	National	St. Xavier's College (Autonomous), Palayamkottai.	25 th August 2023.

National / International Webinars Attended:

S.No.	Title	Organized By	Date
1.	Three Days Online Training on Microsoft Excel for professionals and student	Data skills numbers and beyond, Hyderabad	22 nd , 23 rd & 24 th April 2020
2.	Online National Workshop on Basics of Documentation using Latex	Stella Maris College(Autonomous), Chennai	24 th , 25 th , 29 th & 30 th April 2020
3.	Two weeks free online course on Basic of MATLAB	Ramanujam Forum, Department of Mathematics, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode	22 nd April to 5 th May 2020
4.	Career Edge – Knockdown the lockdown	TCS ION	4 th May to 7 th May 2020

5.	“Micro & Nanotechnology and its Applications”	Department of Physics, GTN Arts College, Dindugul	14 th May 2020
6.	Webinar on “Application of Graph theory”	Department of Mathematics, Shri krishnaswamy College for Women, Chennai.	15 th May 2020
7.	Online workshop on Mathematical Science for CSIR-UGC NET Aspirants	PG & Research Department of Mathematics, St. Mary’s College, Thoothukudi	19 th May to 23 rd May 2020
8.	Two day online Webinar on “Partial Differential Equations: Theory & Applications”	PG & Research Department of Mathematics, Nirmala College for Women, Coimbatore	25 th & 26 th May 2020
9.	Webinar on Recent Research Directions in Distance in Graphs	Department of Mathematics, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi	28 th May 2020.
10.	One day webinar on Graphs in Life	Department of Mathematics, Don Bosco College of Arts and Science, Keela Eral, Thoothukudi	29 th May 2020.
11.	Online national workshop on Linear Algebra	Department of Mathematics, SSN College of Engineering, Kalavakkam.	1 st and 2 nd June 2020
12.	Webinar on “Vedic Mathematics level-1”	Department of Mathematics, CMS College of Science and Commerce, Coimbatore.	3 rd June 2020
13.	Webinar on ‘Emerging Trends In Algebra’	PG and Research Department of Mathematics, Jayaraj Annapackiam College for Women(Autonomous), Periyakulam	17 th March 2021
14.	Webinar on ‘National level cross examine program on Research Methodology’	Internal Quality Assurance Cell (IQAC), The Madurai Diraviyam Thayumanavar Hindu College, Tirunelveli, Tamil Nadu.	18 th & 19 th August 2021.
15.	‘A Special Lecture on Labeling and Coloring in Graphs’	St. Mary’s Mathematics Research Forum.	17 th August 2021.
16.	Webinar series on "exploring new avenues of research in graph theory : Degree and Distance	Department of Mathematics, Sathyama Institute of Science and Technology.	27 th August 2021.

	Based Measures in Graphs”		
17.	Webinar series on "exploring new avenues of research in graph theory : Distance in Graphs”	Department of Mathematics, Sathyama Institute of Science and Technology.	29 th September 2021.
18.	National Seminar on “Current Scenario in Graph Theory and its Applications”	DBT Star College Scheme organized by the Department of Mathematics, V.V. Vanniaperumal College for Women, Virudhunagar.	11 th February 2022.
19.	National webinar on “Graph Theory Emerging In The Field of Computer Science”	PG & Research Department Of Mathematics through virtual mode.	25 th March 2022.

Resource Person:

- ❖ Chair Person for paper presentation in “International Conference on Recent Developments in Data Science” on 21st, 22nd February 2024
- ❖ Chair Person for paper presentation in “International Conference on Applications of Mathematics in Data Science” on 27th, 28th February 2024.
- ❖ Resource person to teach Business Math during 21st June 2023 to 21st July 2023 for the first year MBA students.

Reviewer:

- ❖ Asian Research Journal of Mathematics
- ❖ BP International (Research Updates in Mathematics and Computer Science)

Fields of Specification under the Subject / Discipline:

1. Graph Theory

Personal Details:

Name : Joy Beaula F
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