

## Faculty Profile



Faculty Name : MARY SHALET T J  
Designation : ASSOCIATE PROFESSOR  
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Experience Details : 20 years

### **Educational qualifications**

Course	University/ Institution	Year of Pass
UG	Mahatma Gandhi University	1999
PG	Mahatma Gandhi University	2001
PhD	Calicut University	2023

**Broad Area of Research** : Graph Theory

### **Publications** (Newest first)

1. Manoj Changat, Prasanth G. Narasimha-Shenoi, Mary Shalet Thottungal Joseph, Archana Sivadas, and Prakash G. Narasimha-Shenoi; Anticenter of Profiles in Products of Graphs, Indian Journal of Pure and Applied Mathematics (2023): 1-10
2. Manoj Changat, Prasanth G. Narasimha-Shenoi, and Mary Shalet Thottungal Joseph; Center and periphery of lexicographic product of digraphs, The Art of Discrete and Applied Mathematics (2023)
3. Prasanth G. Narasimha-Shenoi, Mary Shalet Thottungal Joseph, Center of Cartesian and strong product of digraphs, J. Ramanujan Math. Soc. 36, No.4 (2021) 267–273
4. Manoj Changat, Prasanth G. Narasimha-Shenoi, Mary Shalet Thottungal Joseph, Bijo S. Anand. Boundary-type sets of strong product of directed graphs, Ars Math. Contemp. (2021)
5. Changat, Manoj, Prasanth G. Narasimha-Shenoi, and Mary Shalet Thottungal Joseph. "Lexicographic Product of Digraphs and Related Boundary-Type Sets." Conference on Algorithms and Discrete Applied Mathematics. Springer, Cham, 2021.
6. Changat, Manoj, Prasanth G. Narasimha-Shenoi, Mary Shalet Thottungal Joseph, and Ram Kumar. "Boundary Vertices of Cartesian Product of Directed Graphs." International Journal of Applied and Computational Mathematics 5, no. 1 (2019).

### **Paper Presentations**

Sl. No.	Title of paper	Name of Conference	Date
1	Lexicographic Product of Digraphs and Related Boundary-Type Sets.	IIT Ropar, International Conference on Algorithms and Discrete Applied Mathematics	11-13, February 2021
2	Center of Cartesian and strong product of digraphs	Rajagiri School of Engineering and Technology, International Conference on Number Theory and Discrete Mathematics	11-14 December 2020

3	Some distance related properties of digraphs and their Cartesian product	B.C.M. College, Kottayam, International Conference on Graph Connections	August 6-8, 2020
4	Directed graphs and their boundary vertices	LBS Institute of Technology for Women, Tvm., National Conference on Discrete structures and its applications	29, 30 September 2016

**Areas Of Interest :**

- Digraphs
- Graph products

**Field of Research :**

- Graph Theory

**Research Projects and Grants**

Sl. No.	Title	Funding Agency	Amount Sanctioned	Year
1	Co-investigator of a completed major project - A Study on axiomatic characterizations, convexity and distance related problems on graphs and its products and, Graphs arising from Rings	SERB- EMR	660000	2016

**Seminars / Workshops Organized**

Sl. No.	Name of the Programme	Venue	Date
1	National Seminar on Calculus of Variations	Govt. College Chittur	December 8, 9 2017
2	National Seminar on Topology and Fractal Geometry	Govt. College Chittur	November 19 -21, 2010

**Other Responsibilities**

- Head, Department of Mathematics
- Convener, Students Grievance Redressal Cell
- Convener, Minority Cell

**Membership of Professional bodies :** Lifelong member of Ramanujan Mathematical Society