**Faculty profile**



PASSPORT SIZE PHOTO

Faculty Name : MARY SHALET T J

Designation : ASSISTANT PROFESSOR

PEN : 610448

Department : MATHEMATICS

Is HOD : YES

Permanent Address : CHAKKALAKKAL HOUSE 22/66C, EDAKOCHI-682010

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Experience Details : 17 years

**Educational qualifications**

|  |  |  |
| --- | --- | --- |
| **Course** | **University/ Institution** | **Year of Pass** |
| UG | Mahatma Gandhi University | 1999 |
| PG | Mahatma Gandhi University | 2001 |

**Broad Area of Research : Graph Theory**

**Publications** (Newest first)

1. 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

2. 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), doi:10.26493/1855-3974.2229.5f1.

3. 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.

4. 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**

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| --- | --- | --- | --- |
| **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 |  February 11-13, 2021 (online) |
| **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 (online) |
| 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 (online) |
| 4 | Directed graphs and their boundary vertices | LBS Institute of Tech. 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**

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| **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**

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| **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  |

**Academic & Administrative Responsibilities**

1. Member, UG Board of Studies in Mathematics, University of Calicut