



# Sri SAI RAM INSTITUTE OF TECHNOLOGY

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Sai Leo Nagar, West Tambaram, Chennai - 44. [www.sairamit.edu.in](http://www.sairamit.edu.in)

## DEPARTMENT OF MATHEMATICS

Name : Dr.V. AVUDAINAYAKI  
 Designation : ASSOCIATE PROFESSOR  
 Email : [avudainayaki.maths@sairamit.edu.in](mailto:avudainayaki.maths@sairamit.edu.in)  
 Qualification : M.Sc,M.Phil.,Ph.D.,  
 Specialization : GRAPH THEORY  
 Research Interest : GRAPH THEORY



Experience in years : **Teaching** UG  PG  **Industry**   
 No. of Workshop/Conferences/  
 FDP attended : Workshop  Conferences  FDP   
 No. of Workshop/Conferences/  
 FDP Organized : Workshop  Conferences  FDP

Professional Membership	THE INDIAN SOCIETY FOR TECHNICAL EDUCATION (LM87121) IEEE MEMBERSHIP(98674496) National InstituteFor Technical Tranining & Skill Development(78909)
Publications	National :10
	International:6
	Book :0
Research Funded Projects	NIL
Patents	1

Achievements	
Any Other Information	NIL

### List of Publications:-

1. B.Selvam,R.Avudainayaki and P.P.Ulaganathan, Cordial and total magic cordial labelings for the extended duplicate graph of arrow graph, International Journal of Mathematics Trends and Technology , Vol. 38(1),(2016),5-11.
2. R.Avudainayaki,B.Selvam and P.P.Ulaganathan ,3-Equitable and even sum cordial labeling for the extended duplicate graph of arrow graph ,Global Journal of Pure and Applied Mathematics,Vol.13(1),(2017),108-111.
3. R.Avudainayaki,B.Selvam and P.P.Ulaganathan, Prime cordial and signed product cordial labeling for the extended duplicate graph of arrow graph, International Journal of Pure and Applied Mathematics” Vol.113(10),(2017),74 – 82.
4. R.Avudainayaki, B.Selvam and P.P.Ulaganathan, 3-Equitable and total magic cordial labeling for the extended duplicate graph of splitting graph of path,Annals of Pure and Applied Mathematics, Vol. 13(2),(2017),199-206.
5. R.Avudainayaki, B.Selvam and P.P.Ulaganathan ,Signed product cordial and even sum cordial labeling for the extended duplicate graph of splitting graph of path, International Journal of Mathematics and its applications,Vol.5,(1),(2017),123–128.
6. R.Avudainayaki, B.Selvam and P.P.Ulaganathan ,Cordial and product cordial labeling for the extended duplicate graph of splitting graph of path, International Journal of Mathematical Archive,Vol8(2),(2017),60-64.

7. R.Avudainayaki, B.Selvam and P.P.Ulaganathan ,E-Cordial and product E-cordial labeling for the extended duplicate graph of splitting graph of path, Journal of Physics, Conf. Series (2018),1-6.
8. R.Avudainayaki, B.Selvam, Harmonious and pell Labeling for some extended duplicate graph, International Journal of Scientific Research in Mathematical and Statistical Sciences, Vol.5(6), (2018), 152-156.
9. R.Avudainayaki, B.Selvam,E<sub>3</sub>.cordial labeling and total 3 - sum cordial labeling for the extended duplicate graph of arrow graph, International Journal of Engineering, Science and Mathematics ,Vol.7(8),(2018),50-61.
10. R.Avudainayaki, B.Selvam and P.P.Ulaganathan, Z<sub>3</sub>-vertex magic total labeling and Z<sub>3</sub>-edge magic total labeling for the extended duplicate graph of arrow graph, International Journal of Computer Sciences and Engineering, Vol.6(9),(2018),1-5.
11. R.Avudainayaki, B.Selvam and P.P.Ulaganathan ,”Some mean labeling for the extended duplicate graph of arrow graph”, Journal of Applied Science and Computations, Vol.6(1),(2019),489-499.
12. R.Avudainayaki, B.Selvam and P.P.Ulaganathan, Some graceful labeling for the extended duplicate graph of splitting graph of path, Journal of Emerging Technologies and Innovative Research, Vol. 6(4),(2019),318-324.
13. R.Avudainayaki, B.Selvam and P.P.Ulaganathan, Anti-magic labeling for some extended duplicate graph,Journal of Applied Science and Computations, Vol.6(4), (2019),3526-3532.
14. R.Avudainayaki and D.Yokesh, Irregular Coloring Of Some Special Graphs, Advances in Mathematics: Scientific Journal, 1857-8365

### **List of Patent :**

- 1.A game Theory approach to a model in mathematical ecology

## **Workshop / Conferences / FDP Attended:-**

1. Attended the FDP on “Innovative Teaching Methodologies” held on 3 May 2011 in AdhiParasakthi Engineering College, Chennai.
2. Attended the Workshop on ‘Fuzzy Logic & Probability And Queueing Theory’ on 2013 in Sri Sai Ram Institute of Technology, Chennai.
3. Attended the Workshop on “Graph Theory and Discrete Mathematics” held on 20th & 21st August 2015 in Sri Sai Ram Institute of Technology, Chennai.
4. Attended the Workshop on “How to write Research Papers for Refereed Journals” held on 24th January 2015 in Sri Sai Ram Institute of Technology, Chennai.
5. Attended the FDP on “Discrete Mathematics & Graph Theory” held on 30th June and 1st July 2016 in KCG College of Technology, Chennai.
6. Attended the International Conference on Mathematical Computer Applications on December 2014 at SSN College of Engineering, Chennai
7. Presented a paper titled “Irregular coloring of some class of Graphs” in ICMCE2015 from 14-15 DEC 2015 at VIT University .
8. Presented a paper titled “Irregular Coloring in Mycielskian Graphs” in National Seminar on Recent Trends in Graph Theory and Combinatorics from 26-07-2016 to 27-07-2016 at Meenakshi college for Women, Chennai – 600024.
9. Presented a paper titled “3-Equitable and Even Sum Cordial Labeling for the Extended Duplicate Graph of Arrow Graph” in National Conference on Emerging Trends in Mathematical Sciences on 22-12-2016 at S.A. Engineering College ,Chennai.
10. Presented a paper titled “Prime Cordial and Signed Product Cordial Labeling for the Extended Duplicate Graph of Arrow Graph” in National Conference on Mathematical Techniques and their Applications from 27-01-2017 to 28-01-2017 at SRM University ,Kattankulathur – 603203.
11. Presented a paper titled “Some Graceful Labeling for the Extended Duplicate Graph of Splitting Graph of Path ” in International Conference on Mathematical Computer Engineering, at VIT University, Chennai Campus on 3-4 November 2017.
12. Presented a paper titled “E-Cordial and Product E Cordial Labeling for the Extended Duplicate Graph of Splitting Graph of Path” in National Conference on Mathematical Techniques and their Applications from 05-01-2018 to 06-01-2018 at SRM University ,Kattankulathur – 603203.
13. Presented a paper titled “ $z_3$  vertex magic labeling and  $z_3$  edge magic labeling for the extended duplicate graph of arrow graph” in International Conference on Computing Science from 16-11-2018 to 17-11-2018 at LOYOLA College, Chennai.
14. Presented a paper titled “Some mean labeling for the extended duplicate graph of arrow graph” in National Conference on Emerging Trends in Mathematical Sciences on 20-12-2018 at S.A. Engineering College ,Chennai.

15. Presented a paper titled “Differential Chromatic Number of Central Graph of Some Standard Graphs” in 2<sup>nd</sup> International Conference on Mathematical Techniques and their Applications from 24-03-2021 to 26-03-2021 at SRM University ,Kattankulathur – 603203.

16. Attended the FDP on “Frontiers of Mathematics” held on 17-8-2020 to 26-8-2020 in SRM University,Ramapuram Chennai.

17. Attended the FDP on “Stress Management from 21-9-2021 to 25-9-2021 by AICTE,New Delhi.

18. Attended the FDP on Mathematics and Statistics to commemorate birth anniversary of Living Legend Prof.C R Rao from 28th Dec.2020 - 02<sup>nd</sup> Jan. 2021 in R.B.V.R.R. Women's College(Autonomous)

18. Presented a paper titled ”Differential Chromatic Number of Middle Graph of Some Standard Graph” in International Conference On Advancements In Applicable Mathematics on 07-03-2022 at S.I.V.E.T. College,Chennai.

### **Workshop / Conferences / FDP Organized:-**

- 1.
- 2.
- 3.