



NARAJOLE RAJ COLLEGE

(NAAC Accredited B grade)

NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Contact No.9933881131 E-Mail Id. narajolerajcollege@rediffmail.com



FACULTY PROFILE

BASIC PROFILE

Name : Dr. Akul Rana
Designation : Assistant Professor
Department : MATHEMATICS
Unique ID : 269967207161
E-mail : arnrc79@gmail.com
Contact No : 9932951220
Academic
Qualification : M. Sc , Ph. D.
Gender : Male
Blood Group : B+
Permanent
Address : At-DHARAMPUR, P.O-GOPIBALLAVPUR.
P.S-GOPIBALLAVPUR, DIST- JHARGRAM,
PIN- 721506 , WEST BENGAL



Akul Rana

SERVICE HISTORY

Year of Joining	2006
Previous Employment, if any	Assistant Teacher at Malancha High School from 2002 to 2006
Experience in Teaching	17 Years
Area of Teaching:	MATHEMATICS
Area of Specialization:	Operations Research
Participation in Administrative activities: Head of the Dept., Program officer of NSS Unit-II, Co-ordinator of UBA.	

RESEARCH PROFILE

Area of Research Interest :	Algorithmic Graph Theory and Data Structure.		
Research Experience (if any)	10 Years		
Conference/Seminar/ Workshop Organised / Attended : Title	Year	Role	Organizer
1. Recent Research Direction on Graph Theory	2008	Participant	Dept. of Mathematics, IIT Kharagpur



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2. <i>International Conference on Mathematics and Computer Science, (ICMCS-09)</i>	2009	Presenter	Dept. of Math., Loyola College, Chennai
3. <i>International Conference on Recent Advances on Mathematics and Applications</i>	2010	Presenter	Dept. of Math., Univ. of Burdwan
4. <i>Orientation Programme</i>	2010	Participant	Jadavpur University
5. <i>National Conference on Mathematical Analysis and its Applications</i>	2011	Presenter	Department of Mathematics, Tripura University, Tripura
6. <i>Seminar on Modern Trends in Operations Research</i>	2011	Presenter	Department of Mathematics, National Institute of Technology, Durgapur
7. <i>International Conference on Business and Information Management</i>	2012	Presenter	Departments of Computer Application & Management Studies, NIT Durgapur
8. UGC Sponsored State Level Three day Workshop on C Language and its Application	2012	Participant	Department of Mathematics, Kharagpur College,
9. UGC Sponsored Two day National Seminar on Design and Analysis of Graph Algorithms	2012	Presenter	Department of Mathematics, Raja N. L. Khan Women's College, Midnapore
10. UGC sponsored Refresher Course in Mathematics	2012	Participant	ASC, North Bengal University
11. Sir Asutosh Mookherjee Memorial Seminar on Educationist Asutosh and his Humanistic Approaches	2013	Presenter	Chandrakona Vidyasagar Mahavidyalaya , Chandrakona
12. National Seminar on Mathematics to Commemorate Sesquicentenary of Sir Asutosh Mukherjee	2014	Presenter	Department of Mathematics, Sidho-Kanho-Birsha University, Purulia
13. UGC sponsored Refresher Course in Applied Mathematics	2014	Participant	ASC, Calcutta University
14. 5-day National Workshop on Optimization and Fuzzy Mathematics	2014	Participant	Dept. of Mathematics, Vidyasagar University
15. National Conference on Optimization and Computational Mathematics	2016	Presenter	Dept. of Mathematics, Vidyasagar University
16. Workshop on Signed Graphs and Semi Graphs	2016	Participant	Departments of Computer Application & Management Studies, NIT Durgapur
17. UGC Sponsored National Conference on Futuristic Trends in Applied & Computational Mathematics	2017	Presenter	Dept. of Mathematics, Vidyasagar University
18. STEM Teacher Training Workshop on Research Based Pedagogical Tools	2017	Presenter	IISER Pune
19. International Conference on mathematics and its Applications	2018	Presenter	Dept. of Math., Univ. of Burdwan
20. Two days state level seminar on "Emerging Issues in Physics, Mathematics and Computer Science"	2019	Presenter	Dept. of Physics, Mathematics & Computer Science, Egra SSB College
21. 7 days FDP on "Rural Immersion and Community engagement: Nai Talim"	2019	Participant	MGNCRE, Hyderabad
22. Science Academies Refresher Course on "Analysis"	2019	Participant	Dept. of Mathematics, Tezpur University



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23. International Conference on Applied Mathematics in Science and Engineering	2019	Presenter	Dept of Mathematics, ITER, Bhubneswar
24. International Conference on Graph Theory and its applications	2019	Presenter	Dept. of Mathematics, SSN College of Engineering, Chennai

Projects ongoing/ completed:

Title	Funding Agency	Year	Amount (Rs.)
1. Domination on some intersection graphs.	U.G.C	2011-2013	1.8 Lacs
2. On irregular labelling of some special graphs.	U.G.C	2015-2017	3 Lacs

Involvement in Academic/ Professional Organizations:

PAPER PUBLICATION ETC. :

Involvement in Academic/ Professional Organizations: NA

Editorial Board Member : NA

Books :	Conditional Covering Problem: Algorithms on Some intersection Graphs, LAP LAMBERT Academic Publishing (2012).
Paper Published:	<p>1. A. K. Sinha, A. Rana. and A. Pal, The 2-Tuple Domination Problem on Trapezoid Graphs, <i>Annals of Pure and Applied Mathematics</i>, 7(1) (2014), 71-76.</p> <p>2 A. K.. Sinha, A. Rana and A. Pal, Signed Star Domination number on Proper Interval Graphs, <i>International journal of Pure and Applied Mathematics</i>, 106 (2016), 123-129.</p> <p>3. A. K, Sinha, A. Rana and A. Pal, Roman Domination on acyclic Permutation Graphs, <i>Journal of Informatics and Mathematical Sciences</i>, 9(3)(2017), 635-648</p> <p>4. A. K. Sinha.,A. Rana and A. Pal, Signed Edge Domination Number on Interval Graphs, <i>Electronic Notes in Discrete Mathematics</i>, 63(2017),279-286.</p> <p>5. A. Rana, A. K. Sinha and A. Pal, Roman Domination in Circular-arc Graphs, Accepted for Publication in <i>INDERSCIENCE journal International Journal of Advanced Intelligence and Paradigm(2018)</i>, DOI: 10.1504/IJAIP.2018.10020075.</p> <p>6. A. Rana, A. K. Sinha. and A. Pal., The 2-Tuple Domination Problem on Circular-arc Graphs, <i>Journal of Mathematics and Informatics</i>, 8 (2017), 45-54.</p> <p>7. Rana, A., Pal, A. and Pal, M., The conditional covering problem on unweighted interval graphs, <i>Journal of applied mathematics and informatics</i>, 28(2010), pp. 1 - 11.</p> <p>8. Rana, A., Pal, A. and Pal, M., The Conditional Covering Problem on Interval Graphs with Unequal Costs, <i>Tamsui Oxford Journal of Information and Mathematical Sciences</i>, 27(2) (2011), pp. 183-195.</p> <p>9. Rana, A., Pal, A. and Pal, M., An Efficient Algorithm to Solve the Conditional Covering Problem on Trapezoid Graphs, <i>ISRN Discrete Mathematics</i>, Article ID 213084, 10 pages, 2011. doi:10.5402/2011/213084</p> <p>10. Rana, A., Pal, A. and Pal, M., The Conditional Covering Problem on Unweighted Interval Graphs with Nonuniform Coverage Radius, <i>Mathematics in Computer Science (SPRINGER)</i>, 6(1) (2012), pp. 33-41.</p>



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| | 11. Rana, A. , Pal, A. and Pal, M., The 2-Neighbourhood Covering problem on Permutation Graphs, <i>Advanced Modeling and Optimization</i> , 13(3), 2011, pp. 463-476 |
| | 12. Rana, A. , Pal, A. and Pal, M., Efficient Algorithms to Solve k -Domination Problem on Permutation Graphs, Y. Wu (Ed.): ICHCC 2011, CCIS 163, pp. 327–334, 2011, <i>Springer-Verlag Berlin Heidelberg 2011</i> . |
| | 13. Rana, A. , The total $R(x)$ -domination problem on Interval Graphs, <i>International Journal of Information Science and Intelligent System</i> , 3(1), 2014, pp. 91-100. |
| | 14. Rana, A. , Pal, A. and Pal, M., An efficient algorithm to solve the distance k -domination problem on permutation graphs, <i>Journal of Discrete Mathematical Science and Cryptography</i> , 19(2), 2016, 241-255. |
| | 15. A. K. Sinha, A. Rana. and A. Pal, Edge Roman Star Domination Number on Graphs, <i>Annals of Pure and Applied Mathematics</i> , 14(1) 2017, 143-152. |

Disclaimer :

The information on this website has been prepared with utmost care aiming at keeping all information up-to-date. The College cannot guarantee the correctness, completeness, topicality or quality of the information presented. In the event of any doubt concerning the content of the website, please contact the concerned faculty.

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