

**(Self-Declared Document)**

Name	: KALYANI MAITY DAS
Designation	ASSOCIATE PROFESSOR
Name of the Department	MATHEMATICS
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**Educational Qualification:**

<u>Degree Name</u>	<u>Institute</u>	<u>Year of passing/awarded</u>
B.Sc. in Mathematics	Vidyasagar University	1995
M.Sc. in Mathematics	Vidyasagar University	1997
B.Ed	Do	1998
NET-Exam, Mathematical and statistical sciences	UGC-CSIR	2001
GATE-Exam, Computer Application	Department of Education, Ministry of Human Resource Development, Govt. of India	1998
M.Tech in Computer Application	Indian School of Mines	1998-1999

**Career Profile/Teaching Experience**

<b>Assistant Professor, Ramnagar College</b>	<b>14.09.2006-02.03.2015</b>	<b>Teaching Experience-8.5yrs</b>
<b>Associate Professor, Belda College</b>	<b>03.03.2015-till now</b>	<b>Teaching Experience-8 yrs.</b>

**Specialization/Research Area**

<b>Operations Research, Graph Theory and Fuzzy Graph Theory</b>

**Course/ Subject Taught**

<b>CALCULUS, DIFFERENTIAL EQUATION, DISCRETE MATHEMATICS, GRAPH THEORY, LOGIC AND SET, STATISTICS, MECHANICS, DYNAMICS, NUMERICAL ANALYSIS, REAL ANALYSIS, OPERATIONS RESEARCH MODELLING</b>

**Publications in Journal / Book / Book Chapter**

**Papers**

<b><u>Title of the Paper</u></b>	<b><u>Journal Name with ISSN, Vol. etc.</u></b>	<b>Year of Publication</b>
<b>An Optimal Algorithm for Computing All-Pair Shortest Path on Weighted Cactus Graph.</b>	<b>Journal of Physical Sciences, Vol. 1, 2000 pp. 45-57 ISSN: 2350-0352</b>	<b>2000</b>
<b>An Optimal Algorithm to Find Maximum and Minimum Height Spanning Trees on Cactus Graphs</b>	<b>Advanced modeling and Optimization, Vol.-10, Number1,(2008) PP. 121-134 ISSN: 1841- 4311</b>	<b>2008</b>
<b>An Optimal Algorithm to Find Maximum Independent Set and Maximum 2-Independent Set on Cactus Graphs</b>	<b>Advanced modeling and Optimization, Vol.-12, Number 2, 2010. pp. 239-248 ISSN: 1841-4311</b>	<b>2010</b>
<b>An Optimal Algorithm to Find a Maximum Weight 2-Coloured Set on Cactus Graphs</b>	<b>Journal of Information and Computing Science, Vol5, Number 3. pp. 211-223 ISSN: 1746-7659</b>	<b>2010</b>
<b>An Optimal algorithm to Find Minimum Dominating Set on Cactus Graph.</b>	<b>Mathematical Modeling and Applied Computing Vol. 3, Number 1, pp. 31-43 ISSN: 0973-6093</b>	<b>2012</b>
<b>Some Algorithms on Cactus Graphs.</b>	<b>Annals of Pure and Applied Mathematics Vol.2, Number 2,(2012) Pp.114-128 ISSN: 2279-087X(P)</b>	<b>2012</b>
<b>An Optimal Algorithm to find a Minimum 2-neighbourhood Covering Set on Cactus Graphs.</b>	<b>Annals of Pure and Applied Mathematics. Vol. 2, Number 1,(2012) Pp 45-59 ISSN: 2279-087X(P)</b>	<b>2012</b>
<b>Algorithm to find Winner index of some Graphs.</b>	<b>Annals of Pure and Applied Mathematics Vol,7, Number1,(2014) Pp-13-18 ISSN: 2279-087X(P)</b>	<b>2014</b>
<b>Labelling of Cactus Graphs</b>	<b>Journal of Physical Sciences,Vol.-23, 2018 pp.111-118, ISSN: 2350-0352</b>	<b>2018</b>
<b>COVID-19 Detection Using Chest X-Ray Images using deep learning</b>	<b>International Journal of Software Science and Computational Intelligence, Volume 14, Issue-1, 2022 ISSN:1942-9045</b>	<b>2022</b>
<b>Interval valued intuitionistic Fuzzy Soft Graphs with application</b>	<b>TWMS J. App. Eng. Math.Accepted ISSN: 18893066 ,19897251</b>	

**Book/Book Chapter**

Title of the Book	Publication Name with ISSN , Vol etc.	Year of Publication
Algorithms on Graphs Design of Algorithms on Some Problems on Cactus Graphs	LAP LAMBERT Academic Publishing (April 6, 2012) ISBN-10:3848492415	2012
Some problems on graphs	Lap lambert academic publishing (11 <sup>th</sup> March,2017) ISBN 13:9783330045774 10:3330045779	2017

**Conference /Seminar/Workshop Attended/Organised**

Sl No.	Title of the paper presented	Title of the conference/	Seminar Organised by	Whether International/ National/ State/Regional/ College/ University level
1.	An Optimal Algorithm... Cactus Graphs.	Emerging Trends in Computational and Applied Mathematics,2007	Department of Applied Mathematics.....Vidyasagar University	National (2007-08)
2.	An Optimal Algorithm.... Cactus Graphs.	Applied and Computational Mathematics and their Application,2008	Department of Applied Mathematics.....Vidyasagar University	National (2008-09)
3.	Applications and Algorithms on Cactus Graphs.	3rd international conference... .January 29-31,2014	Department of Mathematics.....Burdwan University	International
4.	Differential equation and its applications on Cactus Graphs	National conference..... February 14-15, 2014	Department of Mathematic... University of Mumbai	National
5.	Cactus Graphs and Its Spanning Trees	National Workshop on....7-13 April 2014	Department of Mathematics..NIT, Durgapur	National
6.	Algorithms to Find Winner Index of Some Graphs	National Workshop on ...9-13 September, 2014	Department of Mathematics..... Vidyasagar University	National
7.	L(d,2,1)-Labelling of Cactus Graph	2nd International conference on Recent trends in ... March 18-19, 2015	Department of Mathematics..... Vidyasagar University	International
8.	L(3,2,1) Labeling of Graphs.	International conference on ...March 26-28, 2015	Department of Mathematics.....Gauhati University	International
9	Next to shortest path on Cactus Graphs	National Seminar on Recent Trends.....14-15th October, 2015	Dept. of Mathematics.. Ramnagar College,	National

10.	Graceful labeling of cactus graph	National Conference on.....March 1-2,2016	Dept. of Mathematics.. Vidyasagar University	National
11.	L(d,2,1) –Labeling of Paths, Cycles, Complete and Bipartite Graphs	Exploring Advances in Mathematical Sciences, 23 rd and 24 th March, 2017	Department of Mathematics..... University of Gour Banga	International Level
12.	Algorithms for cordial labeling of cactus graphs and finding duplicate graph of path	Futuristic Trends in Applied & Computational Mathematics ... . 29th and 30th March, 2017	Department of Mathematics ..Vidyasagar University	National
13.	Bipartite Edge Colouring	Mathematics and its Application March 29, 2019	Mathematics Department Belda College	State Level
14.	Chromatic Polynomial for a Cactus Graph Tripura University 16 th -18 th July, 2019	Recent Advances in Mathematics and its Application	Mathematics Department .. Tripura University	International Level
15.	Finding 2-neighbourhood Covering Set in Cactus Graphs	International Conference on Pure and Applied Mathematics, 11th January, 2020	Idhaya College for Women , Tamilnadu, PG & Research Department of Mathematics	International Level
<b>Invited Lectures NA</b>				