

Curriculum vitae (CV) of Sankar Das, Associate Professor of Mathematics



Name: SANKAR DAS

Designation: Associate Professor

Department: Mathematics

Mobile No: 9733030943

Email Address: sankarkgp22@gmail.com

Qualification: M.Sc, CSIR NET.

Teaching Experience: 18 years

Research Experience and Area: 06 years & Area: Picture Fuzzy Graphs

Publications in International Journals:

1. S. Das and G. Ghorai (2020) Analysis of road map design based on multigraph with picture fuzzy information, Int. Journal of Applied and Computational Mathematics, 6(3): 1-17 [SCOPUS].
2. S. Das and G. Ghorai (2020) Analysis of the effect of medicines over bacteria based on competition graphs with picture fuzzy environment, Computational and Applied Mathematics, 39(3): 1-21 [SCIE, I.F: 2.998].
3. S. Das, G. Ghorai and M. Pal (2021) Certain competition graphs based on picture fuzzy environment with applications, Artificial Intelligence Review, 54: 3141-3171 [SCI, I.F: 12].
4. S. Das, G. Ghorai and M. Pal (2021) Genus of graphs under picture fuzzy environment with applications, J. Ambient Intell. Human. Comput., <https://doi.org/10.1007/s12652-020-02887-y> [SCIE, I.F: 7.8].
5. S. Das, G. Ghorai and M. Pal (2021) Picture fuzzy tolerance graphs with applications, Complex and Intelligent Systems, DOI: 10.1007/s40747-021-00540-5 [SCIE, I.F: 5.8].
6. S. Das, S. Poulik and G. Ghorai (2021) Randic index of bipolar fuzzy graphs and its application in network systems, Journal of Applied Mathematics and Computing, <https://doi.org/10.1007/s12190-021-01619-5>, (SCIE, IF-2.196).

7. S. Das, G. Ghorai and Q. Xin, (2022) Picture Fuzzy Threshold Graphs with Application in Medicine Replenishment, *Entropy*, 24, 658 [SCI, I.F: 2.7].
8. S. Das, S. Poulik and G. Ghorai (2023) Picture fuzzy-tolerance competition graphs with its application, *J. Ambient Intell. Human. Comput.*, <https://doi.org/10.1007/s12652-023-04704-8>, [SCOPUS].
9. S. Das and G. Ghorai (2023) Some more results of picture fuzzy-tolerance competition graphs, [Communicated].

Publications in National (UGC Listed) Journals:

1. S. Das (2016) Study on combinatorial dual graph in intuitionistic fuzzy environment, *Malaya Journal of Matematik*, Vol. 4, No. 4, 624-631, (UGC CARE LISTED).
2. S. Das (2020) Similarity measures on intuitionistic fuzzy matrices and its applications, *Malaya Journal of Matematik*, Vol. 8, No. 3, 761-766, 2020, <https://doi.org/10.26637/MJM0803/0005>, (UGC CARE LISTED).

Attended/Presented Paper/ in Seminar/Workshop/Webinar:

Seminar Attended:

1. UGC Sponsored State Level Seminar on “Present Development in Mathematics (SPDM-2005), Organized by Department of Mathematics (UG &PG) J. K. College, Purulia, during February 09-10, 2005.
2. UGC and ICSSR Sponsored National Conference in Anthropology on the” Indigenous people in India: Identity, Empowerment and Discontent” held during 18-19 January, 2007, Organized by Seva Bharati Mahavidyalaya.
3. Seminar on “The national knowledge commission Emerging continuous in the realm and higher education” held on 29.12.2007 at Pingla Thana Mahavidyalaya, Paschim Medinipur Organized by WBCUTA Midnapore west District Committee on the occasion of its xiv th Biennial Conference and xvth Annual general Meeting.
4. National Seminar on “Applied and Computational Mathematics and Their Applications” held on 06-07 March, 2008 Organized by Department of Applied Mathematics with Oceanology and Computer Programming, VU.
5. UGC Sponsored State Level Seminar in Bengali on” Paschim Banger Loksanskriti parichy O Bartaman Astitwer Sandhan” held March 14, 2008, at Seva Bharati Mahavidyalaya.
6. UGC Sponsored two-day National Seminar on “Learning and Enjoying: Co-Curricular and Recreational Activities in Mathematics” Organized by Sevayatan Sikshan Mahavidyalaya, Sevayatan, Jhargram during 18-19 February, 2011.

7. Regional Level Seminar on “Ordinance of Universities in West Bengal: Advancement or Retrogression” Organized by WBCUTA, Paschim Medinipur District Committee in collaboration with V.T.T. College, Midnapore during 17 December, 2011.
8. UGC Sponsored two-day National Seminar on “Design and Analysis of Graph Algorithms” Organized by Department of Mathematics, Raja N.L.Khan Women’s College in Collaboration with Department of Mathematics, Yogoda Satsanga Palpara Mahavidyalaya during 13-14 August, 2012.
9. UGC Sponsored two-day National Seminar on “Foreign Direct Investment and its Impact on Indian Economy” Organized by Dept. of Commerce, Kharagpur College in collaboration with WBCUTA, Paschim Medinipur District Committee during 21-22 March, 2013.
10. National Seminar on Research Methodology in Higher Education, Organized by Vidyasagar University Research Scholar Association (VURSA) on 19th March, 2013
11. 2nd International Conference on “Recent Trends in Mathematics and Its Applications (ICRTMA 2015)” Organized by Dept. of Applied Mathematics with Oceanology and Computer Programming during 18-19 March, 2015.
12. Seminar on “Autonomy of educational Institutions: Legacy of Heritage and the present Times” Organized by West Bengal College University Teachers’ Association during 26th September, 2015.
13. UGC Sponsored National Level Seminar on Recent Trends in Mathematics and Computing, Organised by Department of Mathematics, Ramnagar College during 14th & 15th October, 2015.
14. National Seminar on “New higher Education Policy in India: Problems and Prospects” Organized by K.D. College of Commerce and General studies, Midnapur, Paschim Medinipur and West Bengal College University Teachers’ Association during 30th January, 2016.
15. National Conference on “Optimization and Computational Mathematics (NCOCM 2016)” Organized by Dept. of Applied Mathematics with Oceanology and Computer Programming during 01-02 March, 2016.
16. UGC Sponsored National Seminar on Advance Level of Mathematical Science, Organized by PG Department of Mathematic, Raja N. L. Khan Women’s College in Collaboration with Department of Mathematic, Chandrakona Vidyasagar Mahavidyalaya during 09th & 10th February, 2017.
17. National Level Seminar on Impact and Climate Chang: An Emerging Issue, Organized by Department of Geography, Silda Chandra Sekhar College on 27th March, 2017.
18. Seminar on Regulations of UGC CAS & NAAC, Organised by Dept. of Library Science, Seva Bharai Mahavidyalaya on 1st December, 2018.
19. Seminar on Mathematics and its recent advancements, Organised by Dept. of Mathematics, Midnapore College, held on 30-31, October, 2018.
20. Seminar on Glimpses of Pure and Applied Mathematics, Organised by Dept. of Mathematics, Pingla Thana Mahavidyalaya, held on 03.03.2020.

Workshop Attended:

1. Three days National Workshop on Discrete Structures held on 17-18, March, 2010, Organized by Department of Applied Mathematics with Oceanology and Computer Programming, VU.
2. UGC Sponsored State Level Three-day Workshop on “C-Language and Its Application” Organized by Dept. of Mathematics, Kharagpur College in collaboration with WBCUTA, Paschim Medinipore District Committee during 28-30 March, 2012.
3. One-day workshop for revision of Syllabus for Hons and pass course of Vidyasagar University in Mathematics, Organized by Dept. of Applied Mathematics with Oceanology and Computer Programming and the Council for under graduate studies, Vidyasagar university on 06th March, 2014.
4. 5-days National Workshop on “Optimization and Fuzzy Mathematics (NWOFM 2014)” Organized by Dept. of Applied Mathematics with Oceanology and Computer Programming during 9-13 September, 2014.
5. Regional Level one day Workshope on “Governance in Colleges Affiliated to Vidyasagar University: Problems and Remedies” Organized by WBCUPA, Paschim Medinipore District committee (Ad Hoc) on 10th May, 2015.
6. One-day Symposium on New UG Syllabus of Mathematics Organized by Dept. of Applied Mathematics with Oceanology and Computer Programming and the Council for under graduate studies, Vidyasagar University on 13th September, 2017.
7. 5-days National Workshop and hands on Training Programme (Under UGC(CPE) Scheme) on “Object Orientated Programming in C++ and MATLAB” Organized by Dept. of Mathematics, Raja N. L. Khan Women’s College during August 1-5, 2018.
8. One-day Symposium on New UG Syllabus of Mathematics 2018 Organized by Dept. of Applied Mathematics with Oceanology and Computer Programming and the Council for under graduate studies, Vidyasagar university on 30th August, 2018.
9. Teacher’s Enrichment National Level Workshop on “Mathematics and its Recent Advancements “Organized by Dept. of Mathematics (UG & PG) Midnapur College (Autonomous) during October 30-31, 2018.
10. One-day Symposium on New UG Syllabus of Mathematics 2019 Organized by Dept. of Applied Mathematics with Oceanology and Computer, Vidyasagar university on 8-9 June, 2022.
11. One-day workshop on “Promotion Under Career Advancement Scheme” Organized by IQAC, Kharagpur College on September 14, 2019.
12. Two-days international conference on applied mathematics (ICAM-2022) Organized by Dept. of Applied Mathematics with Oceanology and Computer Programming and the Council for under graduate studies, Vidyasagar university on 30th August, 2018.

Participation in the Webinars organized by

- (i) Midanapoe College (02-03 June, 2020)

- (ii) Asansol Girls' College (12.06.2020)
- (iii) Bhairab Ganguly College (15 & 21-22 June, 2020)
- (iv) Kharagpur College (20.06.2020)
- (v) Manipal University (23.06.2020)
- (vi) Vidyasagar University (7-8 July & 5-7 Aug, 2020)
- (vii) Raghunathpur College (09-11 July, 2020)
- (viii) Kharagpur College (13-14, 17 & 29 July, 2020)
- (ix) Krishnagar Govt. College (27 July & 21 Aug, 2020)
- (x) S.S. Mahavidyalaya (8-9 August, 2020)
- (xi) Vivekananda Mahavidyalaya (10 August, 2020)
- (xii) Bankura University (13-14 August, 2020)
- (xiii) Egra S.S.B. College (16.08.2020)
- (xiv) Jhargram Raj College (25.08.2020)
- (xv) Panskura Banamali College (28-29 August, 2020)
- (xvi) Mugberia Gangadhar Mahavidyalaya (30 August-1st September, 2020)

Paper Presented:

1. Title of the Paper: Emerging Trends in Higher Education. National Seminar on Research Methodology in Higher Education, Organized by Research Scholar Association, VU on 19th March, 2013,
2. Title of the Paper: Similarity Measures on Intuitionistic Fuzzy Matrices. UGC Sponsored National Level Seminar on Recent Trends in Mathematics and Computing, Organised by Department of Mathematics, Ramnagar College during 14th & 15th October, 2015.
3. Title of the Paper: Intuitionistic Fuzzy Combinatorial Dual Graphs. UGC Sponsored National Seminar on Advance Level of Mathematical Science, Organized by PG Department of Mathematic, Raja N. L. Khan Women's College in Collaboration with Department of Mathematic, Chandrakona Vidyasagar Mahavidyalaya during 09th & 10th February, 2017.
4. Title of the Paper: A Mathematical Model on Climate Change. National Level Seminar on Impact and Climate Change: An Emerging Issue, Organized by Department of Geography, Silda Chandra Sekhar College on 27th March, 2017.
5. Title of the Paper: "Competition graphs based on picture fuzzy environment and its application". Three-days international seminar on "Systematic approach to modern

science and its philosophical impacts”, Departments of Physics, Chemistry, Mathematics, Computer Science, Zoology & Philosophy of Bajkul Milani Mahavidyalaya, held on 06-08, February, 2020.

6. Title of the Paper: “Study on picture fuzzy planer graph and its applications”. Two-days international seminar on “Classical to quantum computing”. Department of Physics, B.Voc, (Software Development), Computer Science & Mathematics of Egra S.S.B. College, held on 15th & 16th February, 2020.
7. Title of the Paper: “Analysis of the effect of medicines over bacteria based on competition graphs with picture fuzzy environment”. Two-day international seminar on “Mathematics and Computing: Present Perspectives”, Departments of Mathematics & Computer Science of Mahishadal Raj College held on 20th -21st February, 2020.
8. Title of the Paper: Analysis of the effect of medicines over bacteria based on picture fuzzy competition graph, Two-days National Seminar on Mathematical Modeling and its Application to Epidemiology, Organized by Department of Mathematics, Bangabasi Evening College, Kolkata on 10-11 Nov, 2022.
9. Title of the Paper: Study on picture fuzzy competition graphs and its applications, International Siirt Conference on Scientific research, Organized by Siirt University, Turkiye on 18-19 Nov, 2022.

Fellowship/Award/recognition received:

1. Principal Sripati De Memorial Award from Kharagpur College, 2002
2. Anweshan Bhowmik Memorial Award from Kharagpur College, 2002
3. Principal Sripati De Memorial Award from Kharagpur College, 2003
4. UGC-CSIR Fellowship in 2005.

Administrative responsibility:

1. H.O.D, Seva Bharati Mahavidyalaya (2006-2015)
2. Hostel Super (2010-2013) Ashramik Chatrabas, S.B. Mahavidyalaya
3. H.O.D, Kharagpur College (2016-17 & 2017-18)
4. Member (Teachers Representative), Governing Body, Seva Bharati Mahavidyalaya (2012-2016)
5. Member (V.U. Nominee) Governing Body, Silda C. S. College (2014-2019)
6. Member, IQAC, Seva Bharati Mahavidyalaya (2012-2015)
7. Nodal Co-ordinator, Kharagpur College Nodal Center (2022-23).

Members in different Committee:

1. Member, Library Sub Committee (2006-2011), S.B. Mahavidyalaya
2. Member, Finance Sub Committee (2012-2016), S.B. Mahavidyalaya
3. Member, Examination Sub Committee (2012-2016), S.B. Mahavidyalaya
4. Member, NAAC Sub Committee (2012-2016), S.B. Mahavidyalaya
5. Member, Finance Sub Committee (2014-2019), Silda C. S. College
6. Member, Teaching and Learning Sub Committee (2015-2016), Kharagpur College
7. Member, Routine Sub Committee (2016-2018), Kharagpur College
8. Member, Games and Sports Sub Committee (2016-2018), Kharagpur College
9. Convener, Games and Sports Sub-Committee (2022-2023), Kharagpur College.