CURRICULUM VITAE

Dr. Sweta Srivastav || Assistant Professor || Mathematics Department

Teaching Experience: **12 years**

Academic Qualification:

Ph.D. (Mathematics)	Awarded	**Saurashtra University**	**2008**
M.Sc. (Mathematics)	71%	Saurashtra University	2005
B.Sc. (H)	68%	Saurashtra University	2003

** Ph. D. Topic: Discussion on some important topics on graph theory.

Area of Specialization: Graph Theory and its Applications

Area of Research: Graph Theory, Probability and Statistics, Operational Research, Number Theory, Numerical Analysis.

Work Experience
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1. Working as Assistant professor in Sharda University from July 2010 to till now.
2. Worked as Assistant professor in B.H. Gardi college of Engineering & Tech. Rajkot, 2008- 2010 June.

Achievements
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3. Judge in 'TECHNOVATION HACKATHON2' in collaboration with GNIDA, from 25th – 26th January, 2020.

4. External Examiner of Ph.D. student from Gujrat Technological University.

5. Judge at Kendriya Vidyalaya Greater Noida, 7/11/19 to 8/11/19 the team of child scientists in "A Program of National Council for Science & Technology Communication Department of Science & Technology, Government of India.

6. Resource person in Analysis of Data in Excel: Simple Tips and Techniques, 30/10/19 Sharda University, Greater Noida.

7. Resource person in DST Sponsored Science Camp Under the INPIRE Internship Programme 29/7/19-2/8/19, Sharda University, Greater Noida.

8. PARSF-2019- Level 3

9. PARSF-2018: Level 2

10. PARSF-2017: Level 3.

11. PARSF-2016: Level 1.

12. PARSF-2015: Level 3.

13. Students Feedback-2017: Secured Net Average 4.35 out of 5.

14. Students Feedback-2016: Secured more than 95% feedback in SBSR.

15. Judge at Kendriya Vidyalaya Greater Noida, 23/10/17 to 25/10/17 the team of child scientists in "A Program of National Council for Science & Technology Communication Department of Science & Technology, Government of India.

16. Reviewer of "International Journal of Innovative Research in Engineering & Multidisciplinary Physical Sciences (IJIRMPS)".

17. Board member and reviewer of International Journal of Mathematics Trends and Technology.

18. Reviewer for the journal "International Journal of Engineering Research".

19. Reviewer for the journal "International Journal of Creative Research Thoughts ".

20. Reviewer of Indo Global Journal of Interdisciplinary Research and Review.

21. Board Member/Reviewer of Asian Journal of Applied Science & Technology.

22. Present Invited Talk 'On Hypothesis Testing" in Prakash Institute of Nursing, 8 April 2017.

23. External Paper Setter of Tirthankara Mahaveer University(TMU), Moradabad.

24. Member of Interview board for recruitment of junior faculty in Mathematics in BHGCTE.

25. Overall Management and Administration of Applied Science Department (Mathematics, Physics, Chemistry, Etc.) in B.H. Gardi Engineering College, Rajkot

26. Examination Committee Head (Convener) for conducting all Internal and External(Gujarat Technological University, Ahmadabad) examination (GTU) in college.

27. Evaluation and analysis of Examination results.

28. Coordinator of ISO 9001.2008 for Department.

29. Chairperson of Woman cell in B.H. Gardi Engineering College, Rajkot.

30. Certified Examiner for evaluation of answer sheets of GTU.

31. Awarded merit scholarship in M.Sc. 2003.

Research Papers Published

1. Sweta Srivastav, Sangeeta Gupta, "On domination number of some new types of graphs", international journal of natural science, Vol 12 issue 66 pp 32073-32076, June 2021 ISSN: 0976-0977. (Impact factor 0.640).
2. Sweta Srivastav, Sarang, Cordial Labeling of some Pan graphs, International Symposium on Computational Science and its Applications, ICSEM 2018, organized by School of Basic Sciences and Research, Sharda University, Greater Noida, U. P. 6-8 Jan, 2021. (SCOPUS)
3. Neihpuii H C, Sweta Srivastav, Sangeeta Gupta, "APPLICATION OF GRAPH COLORING IN SURVEILLANCE SYSTEM", High Technology letters, vol27, issue 6 pp 706-718, June 2021, ISSN: 1006-6748. (Impact factor 2.70)
4. Sangeeta Gupta, Sweta Srivastav, Bhawna Gupta, "An Optimal Policy for Items with Linear Demand Rate, Variable Deterioration Rate Under Shortage and Lead-Time", Journal of University of Shanghai for Science and Technology, Volume 23, Issue 7 pp 1-9, July 2021 ISSN: 1007-6735. (Impact factor 0.130)
5. Sangeeta Gupta, Sweta Srivastav, Varsha Rathi, "Case Study: Application of linear programming for optimizing the product mix problem of linear programming in the Apparel Industry ", Journal of University of Shanghai for Science and Technology, Volume 23, Issue 7 pp 1091-1098, July 2021 ISSN: 1007-6735. (Impact factor 0.130)

6. Sweta Srivastav, Shivi, An Application of Graph Coloring in University Time Table Problem**,** Journal of Shanghai Jiaotong University, Volume 16, Issue 9, 841-850, September – 2020, ISSN:1007-1172. (Impact factor 0.410). (SCOPUS)

7. Sangeeta Gupta, Sweta Srivastav, Special Relation on energy of subdivision of the graph, ADALYA JOURNAL, Volume 9, Issue 6, 389-392, June 2020, ISSN NO: 1301-2746. (Impact factor 5.3)**.** (SCOPUS)

8. Sangeeta Gupta, Sweta Srivastav, Ragini, "An EOQ Model for Time Dependent Deteriorating Items with Residual Value and Fractionally Time-Varying Backlogging Under Permissible Delay in Payment", ADALYA JOURNAL, Volume 9, Issue 6, 370-376, June 2020, ISSN NO: 1301-2746. (Impact factor 5.3)**.** (SCOPUS)

9. Sweta Srivastav, Sangeeta Gupta, "Results with MATLAB coding of Middle Graph of Cycle and its related graphs in context of Sum Divisor Cordial", International Journal of Emerging Trends in Engineering Research, Volume 8. No. 2, 398-401, February 2020, ISSN 2347 – 3983. (SCOPUS)

10. Sweta Srivastav, Sangeeta Gupta, Traffic Light Control at Crossroad using Graph theory with MATLAB, International Journal of Advanced Trends in Computer Science and Engineering, Volume 9, No.1, 587-589, January – February 2020, ISSN 2278-3091. (SCOPUS)

11. Divisor 3-Equitable Labeling of Graphs, **Sweta Srivastav** ,Sangeeta Gupta, IJCSIS feb 2019, Vol. 17 No. 4.

12. MATLAB Algorithm for New Results on Energy of Graphs, Sangeeta Gupta, **Sweta Srivastav**, IJCSIS March 2019, Vol. 17 No. 4.

13. Some More Sum Divisor Cordial Labeling of Graphs, **Sweta Srivastav** ,Sangeeta Gupta, IJCSIS April 2019, Vol. 17 No. 4.

14. **S. Srivastav, S. Gupta**, A Correlation Study: Faculty Student Relationship "International Journal of Creative Research Thoughts" ISSN: 2320-2882 Volume 6, March (2018).

15. **S. Gupta, S. Srivastav**, Research Study: Attitude towards Science and Technology among Students "International Journal of Creative Research Thoughts ISSN: 2320-2882 Volume 6, March (2018)".

16. **S. Gupta, S. Srivastav** ,MATLAB Program for Energy of Some Graphs "International Journal of Applied Engineering Research ISSN 0973-4562 Volume 12, Number 20 (2017)". (Indexed in Scopus).

17. S. Srivastav, S. Gupta , Energy of Some Simple Graphs: MATLAB Approach " International Journal of Computer Science and Information Security,Vol.15, Sep.2017. ISSN: 1947 5500. (Indexed in Scopus).

18. "Some New 3-Equitable Prime Cordial Labeling Graphs" International Journal of Control Theory and Applications, Vol.10, June 2017. ISSN : 0974-5572 (Indexed in Scopus).

19. "A study of inventory system with ramp type demand rate and shortage in the light of inflation – II" IJAR, Vol.5, Issue 6 June 2015.

20. "An Inventory Replenishment Policy under Condition of Permissible Delay in Payments with Limited Storage Capacity" IJRM, Vol.2, March 2015.

21. "3 Equitable prime Cordial labeling of Some Graphs." IJER, Vol.4, March 2015.

22. "A study of inventory system with ramp type demand rate and shortage in the light of inflation – I." IJMTT, Vol.17 No.2, Jan. 2015.

23. Cordial labeling for cycle with one chord and its related graphs, IJMMS June 2008, Vol. 1.

24. Some new cordial graphs, International Journal of Scientific Computing.

25. Cordial and 3-equitable labeling of cycle with twin chords, Proceedings ICETAETS (International conference of emerging technology), 1(2008), 905-907.
26. Cordial labeling for two cycle related graphs. The Mathematics Students. 76(2007); 273-282.
27. Gracefulness of union of two path graphs with grid graph and complete bipartite graph, Proceedings ICETAETS, 1(2008) 616-619.
28. Cordial and 3-equitable labeling of star of a cycle, Mathematics Today, 2(2008); 54-64.
29. Barycentric subdivision and cordial labeling of some cycle related graphs, Proceedings ICETAETS, 1(2008), 1081-1083.
30. Some classes of disconnected graceful graphs. Proceedings ICETAETS, 1(2008), 1050-1056.
31. Some cycle related cordial graphs in the context of vertex switching,14(2010) AKCE journal (Scopus Indexed) .

Paper/Poster Presented

1. Paper Presented- On domination number of some new types of graphs. International Conference on Computational intelligence and Communication-21 on 3rd June 2021.
2. Paper Presentation- 3-Equitable prime cordial labeling of some graphs. International Conference on the occasion of silver jubilee of ISIAM. 29-31 Jan. 2016 .
3. Poster Presentation- Some cycle related cordial graphs in the context of vertex switching, ICDM University of Mysore, June 6-10 2008.
4. Poster presentation – 3-Equitable labeling of some cycle related graphs, International Conference on recent Developments in combinatorics and graph theory, Kalasalingam University, June 10-14 2007.
5. Paper Presentation—Reconstruction of Graphs, ISSCA, Saurashtra University, Nov. 11-13 2006.
6. Paper presentation – Cordiality in the context of reconstruction and contraction. National Conference on Combinatorics and Graph theory, Saurashtra University, March 10-12 2007.
7. Paper Presentation – Cordial and 3-equitable labeling of cycle with twin chords.

Conferences/Seminars/Symposium/ Workshop Attended

1. Participated in International Conference on computing Sciences organized by Advanced Research Society, Chennai, 30th April 2021-1st May 2021.

2. International Symposium on Computational Science and its Applications, ICSEM 2018, organized by School of Basic Sciences and Research, Sharda University, Greater Noida, U. P. 6-8 Jan, 2018.

3. 2nd International Conference on Science and Engineering of Materials, ICSEM 2018, organized by School of Basic Sciences and Research, Sharda University, Greater Noida, U. P., 5-6 Feb , 2018

4. Workshop on 'Structural Equation Modelling using AMOS Graphics', 5 Jan. 2018. Sharda University.

5. FDP on "Data Analysis Using R",10-12 October 2017, Sharda University.

6. Workshop on " SPSS basics for Data Analysis", 1-2 December 2017, Sharda University.

7. International Conference on the occasion of Indian Society of Industrial & Applied Mathematics, 29-31 Jan, 2016.

8. Pravesana 2017 , A MATLAB Workshop, 12-13 October 2017, Sharda University

9. Participated in one week faculty development program on "Mathematical Aspect of Image Processing & Computer Vision", Jaypee Institute of Information Technology, Noida, 10/7/17 to 15/7/17.

10. Workshop on National program on differential equations : theory, computation & application.npde-tca-2015.(sponsored by DST)

11. Workshop on Advanced Optimization Techniques, Dept. Of Mathematics, JIIT,9/2014

12. Workshop on Latex, SU, Greater Noida. 4/2014

15. Continuing Education & Quality Improvement Program at IIT BOMBAY on "Linear Algebra and Differential Equation" 10-23 May 2009.

16. International Conference on Emerging Technologies and Applications in Engineering, Technology and sciences, 13-14 Jan. 2008.

17. International Conference of Discrete Mathematics, University of Mysore, 6-10 June 2008.

18.International Conference on Recent Developments in Combinatorics and Graph Theory, Kalasalingam University, June 10-14 2007.

19. National Conference on Combinatorics and Graph theory, Saurashtra University, March 10-12 2007.

20. Indian Society of Statistics, Computer & Applications. Saurashtra University. November 11-13, 2006.

Conferences/Seminars/Symposium/ Workshop/ Event Organized

1. participated in online workshop on Recent Trends in Domination and Graph Labelling (RTDGL 2021) organized by Department of Mathematics, Ramanujan College, University of Delhi in collaboration with Academy of Discrete Mathematics and Applications (ADMA) during 27th May 2021 to 31st May 2021.

2. Participated in one week online short term training programme on "Role of Computational Mathematics in Science & Engineering", Department of Mathematics & Humanities, College of Engineering and Technology (Autonomous), Bhubaneswar, India. 15/2/21 to 19/2/21.

3. Participated "Outcome- Based Education", Sharda University, Greater Noida. 16/9/20 to 20/9/20.

4. Participated "International conference on recent trends in mathematics and its applications to graphs, network and petri nets", JNU New Delhi. 20/7/ 20 to 24/7/20.

5. Attended "Workshop on SPSS: Beginner level", Sharda University, Greater Noida, 25/6/20 to 30/6/20.

6. Attended "Workshop on Patent Drafting and Processing with Importance of Trademark and Copyright", Journal of advanced engineering research, 6/5/20 to 7/5/20.

7. Attended FDP on "Recent trends in materials science and engineering", Sharda University, Greater Noida, 25/5/20 to 31/5/20.

8. Attended FDP on "Open source tools for research" Ramanujan college, university of Delhi under MHRD, 8/6/20 to 14/6/20.

9. Attended "Gender Equality in Education (GEE-2020)" Biju Patnaik University of Technology, Odisha, Rourkela, 2/9/20.

10. International Symposium on Computational Science and its Applications, ICSEM 2018, organized by School of Basic Sciences and Research, Sharda University, Greater Noida, U. P. 5-6 Feb, 2018.

11. 2nd International Conference on Science and Engineering of Materials, ICSEM 2018, organized by School of Basic Sciences and Research, Sharda University, Greater Noida, U. P., 6-8 Jan, 2018

12. Worked as program coordinator in "Workshop on Interview Skills Development by Dept. of Mathematics", Sharda University, Greater Noida on 5/4/18.

13. Organized "Educational Visit to National Science Centre, Pragati Maidan, Delhi, 7/4/18.

14. Worked as organizing secretary in "Pravesana-2017 (A MATLAB workshop)", Sharda University, Greater Noida on 12/10/17 to 13/10/17.

15. Worked as organizing committee member "Memorial Lecture on IOT & AI by Prof U B Desai Director IIT Hyderabad", Sharda University, Greater Noida on 3/4/18.

16. Worked as program coordinator in "An Event Memory of Ramanujan", Sharda University, Greater Noida on 30/1/18 to 31/1/18.

17. Worked as event coordinator in "Expository Talk on "Applications of Functions to Real Life Problems & Applications of Differential Equations in Medical Sciences" by Prof. Zafar Ahsan, Sharda University, Greater Noida on 25/9/17.

18. Worked as coordinator in "Motivational Lecture on 'Mathematics – Whose Cup of Tea?'", Sharda University, Greater Noida on 9/10/17.

19. Worked as coordinator in the event "Memory of Ramanujan", Sharda University, Greater Noida on 30/1/17 to 31/1/17.

20. Worked as organizing committee member and Resource Person in "DST Inspire Internship Science Camp", Sharda University, Greater Noida on 18/7/16 to 22/7/16

21. Worked as organizing committee member International Conference on the occasion of Indian Society of Industrial & Applied Mathematics, 29-31 Jan, 2016.

22. Worked as organizing committee member in Talk "Role of Higher Education in the 21st century: Shaping studies, Students and society" By a well known philanthropist, educationist and entrepreneur Dr. Frank F. Islam., February 14, 2017.

23. Event Coordinator " Quiz Competition" in Earth Day, 22-24 April, 2017.

School/Department Responsibility

1. Time Table Committee co-coordinator of SBSR.
2. Peoplesoft Champion.
3. Remedial Class Coordinator.
4. M.Sc. Program Coordinator.
5. M.Sc. II yr. Mentor.
6. BOS Member.
7. Course Coordinator.
8. Design course curriculum

Massive Open Online Course (MOOC):

1. Introduction to Applied Biostatistics: Statistics for Medical Research 6 week's course end 28 March 2017.
2. Data Science Orientation 6 weeks course end 31 Dec. 2016.
3. Combinatorial Mathematics 12 week's course end 30 Dec. 2016.
4. Discovery Precalculus: A Creative and Connected Approach 15 weeks course end 16 Dec. 2016.
5. Introduction to Differential Equations 11 weeks course end 2 April 2015.
6. LAFF : Linear Algebra: Foundation & Frontier. June 4, 2014.

Computer Proficiency

1. Operating System : Windows
2. MATLAB, Circuit Designing
3. Software Packages: MS Office (Word, Excel, Power point)
4. LaTex Software

External Funded Project

Submitted Project in MATRIX, DST.

Membership

- Life member of ISIAM.
- Life member of Ramanujan Mathematical Society.
- Life member of Indian Mathematical Society

Date:

Place

(Dr. Sweta Srivastav)

Assistant Professor
Sharda University
Knowledge Park-III
Greater Noida
Contact No.: **09911967159**
E-mail **:** **sweta.srivastav@sharda.ac.in**