Sri Sai Ram Engineering College

Department Of Humanities And Sciences

Name: **Dr. S. Ramakrishnan**	
Designation:	**Professor, Department of Mathematics**
Qualification:	**M.Sc., M. Phil., Ph.D., PGDIT** **Cleared CSIR-NET (June 2011)**
Area of Specialization:	**Functional Analysis** **Chemical Graph Theory**
Experience :	Teaching: UG: **30** years PG: **24** years
	Industry: **2** years
No. of Workshop / Conferences / FDP attended / Online Courses completed	**29** **19**

Publication :	Journals National : NIL International : **5**
	Conferences National : **5** International : **7**
Research Guidance :	NIL
General :	Life Member of ISTE (LM30502) Life Member of AMTI (L02043) IEEE Member: 2024 Member of College Accreditation and ISO Committee.
Staff Achievements:	Received “The Best Professor” Educationist Teacher’s day award – 2013 from Education Today. Received a Merit Certificate from Lions Club of Madras Metropolitan South on the Occasion of Teacher’s day Celebrations 2006.

Educational Qualification:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.	Mathematics	1986	Loyola College	Madras University	63%	I
PG	M.Sc.,	Mathematics	1988	RKM Vivekananda College	Madras University	58%	II
	M. Phil.	Functional Analysis Mathematics	1990	RKM Vivekananda College	Madras University	68%	I
Ph.D.		Chemical Graph Theory	2016	Anna University	Anna University		

Academic Experience: As on 31.03.2022

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Guru Nanak College (Evening)	Lecturer	01-11-1993	30-06-1995	1	7	30
Sri Sai Ram Engineering College	Lecturer	02.07.1995	31-12-1998	3	5	30
	Senior Lecturer	01-01-1999	31-07-2004	5	6	31
	Assistant Professor	01-08-2004	31-07-2009	4	11	31
	Associate Professor	01-08-2009	31-07-2010	0	11	31
	Professor	01-08-2010	Till Date	13	10	0
Total				**33**	**07**	**0**

Publications

Journals:

1. **"Topological Indices and New Graph Structures",** Applied Mathematical Sciences, Vol. 6, 2012, No. 108, 5383-5401. www.m-hikari.com/ams/ams-2012/ams-105-108-2012/babujeeAMS105-108-2012.pdf (SCOPUS)

2. **"Topological indices of molecular graphs under specific chemical reactions"**,

International Journal of Computing Algorithm, vol.2, 2013, pp. 224-234. DOI: https://doi.org/10.20894/ijcoa.101.003.001.014

3. **"Degree Distance of Some Planar Graphs"**, International Journal of Computing Algorithm, vol.3, 2014, pp.541-544.
   DOI: https://doi.org/10.20894/ijcoa.101.003.001.014
4. **"Gutman and Schultz indices for nanostar dendrimer"**, Journal of Computational and Theoretical Nanoscience, vol.12, no. 12, 2015, pp. 5449-5456. DOI: https://doi.org/10.1166/jctn.2015.4545 (SCOPUS)
5. **"Schultz and Gutman indices for graph complements"**, International Journal of Pure and Applied Mathematics, vol.105, no.3, 2015, pp.383-392. DOI: http://dx.doi.org/10.12732/ijpam.v105i3.6 (SCOPUS)

Conference Proceedings:

1. **"Schultz and Gutman index of rooted Product of graphs",** Proceedings of the International Conference on Mathematical Computer Engineering – 2015 organized by the Division of Mathematics, School of Advanced Sciences, V.I.T. Chennai, 14 -15 December 2015.
2. **"Modified Schultz index of Chain and Bridge graphs",** National Conference on Emerging Trends in Graph Connections (NCETGC – 2014) organized by Department of Mathematics, University of Kerala, Kariavattom, Thiruvananthapuram during 8 – 10 January 2014.
3. "**Degree distance of Chain and Bridge graphs**", Proceedings of the International Conference on Mathematical Computer Engineering – 2013 organized by the Division of Mathematics, School of Advanced Sciences, V.I.T. Chennai, 29 – 30 November 2013, 267 – 274.
4. "**Degree distance of some planar graphs**" Proceedings of the International Conference on Computational Mathematics – ICCM 2013 organized by PG & Research Department of Mathematics, Loyola College, Chennai 3 – 5 October 2013, International Journal of Computing Algorithm, Vol. 3, February 2014, 541 – 544.
5. "**Schultz and modified Schultz indices of Specific graphs**", Proceedings of the National Conference on Recent Advances in Mathematical Analysis and Applications organized by Department of Mathematics, K. S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode 6 – 7 September 2013, 177 – 188.
6. **"Multiplicative Zagreb indices for Molecular Graphs"** in the National Symposium on Mathematical Methods and Applications - NSMMA 2012 organized by Department of Mathematics, IIT Madras, 22nd December 2012.
7. **"Topological index for Complex Molecular Graphs"**, Seventh Indo-US Workshop

on Mathematical Chemistry Jointly organized by Prist University, Thanjavur and University of Minnesota Duluth, 4-6 December 2012.

8. **'Topological Indices of Molecular Graphs under Specific Chemical Reactions"**, Proceedings of the International Conference on Bioinformatics, Computational Biology - IC-BCB organized by Department of Mathematics, Loyola College, Chennai on the occasion of Fr. Racine International Mathematics Congress, 23 - 25 July 2012.
9. **"Zagreb Indices and Coindices for Compound Graphs"**, Proceedings of the International Conference on Mathematical and Computational Models, ICMCM-2011 organized by Department of Mathematics and Computer Applications, PSG College of Technology, 19-21 December 2011, Narosa Publishing House, 357 - 362.
10. **"Topological Indices for Graphs and Chemical Reactions"**, Proceedings of the International Conference on Mathematics and Computer Science, ICMC -2011 organized by PG & Research Department of Mathematics, Loyola College, Chennai, 7-8 January 2011, 81 – 88.
11. **"Topological Indices and Transformation of Molecular Graphs"**, National Symposium on Mathematical Methods and Applications - NSMMA 2010 organized by Department of Mathematics, Indian Institute of Technology Madras on 22nd December 2010.
12. **"Topological Indices of Triangle Free Graphs with Maximal Edges",** Proceedings of National Conference on Recent Trends in Advanced Mathematics -NCRTAM -2010 organized by Department of Mathematics, Easwari Engineering College on 15th October 2010, 129 – 141.

Workshops Attended:

1. Advanced Training in Mathematics Workshop on "**Combinatorics and Graph Theory**" organized by Department of Mathematics, University of Pune in association with National Board of Higher Mathematics, Govt. of India during 12-17, December 2011.
2. "**Teaching Technology and Counseling skill**" conducted by Abirami Academy on 24th February 2001.
3. Three day intensive workshop on "**Finite Element Methods**" organized by Department of Mathematics, V.I.T., Vellore during 16 - 18 November 2000.

FDP's Attended:

1. Attended Online Orientation Training Programme for mentors organized by NITTTR, Chennai during 05.07.2021 to 09.07.2021.
2. Participated and completed successfully ATAL Academy online FDP on Learning Management System from 21/09/2020 to 25/09/2020 at NITTTR.
3. Participated and completed successfully ATAL Academy online FDP on Online Teaching and Learning Technologies from 17/08/2020 to 21/08/2020 at MNNIT, Allahabad.
4. Participated and completed successfully ATAL Academy online FDP on Blended Learning and Flipped Classroom from 31/08/2020 to 04/09/2020 at NITTTR.
5. Attended ISO 9001:2015 Quality Management System and Audit Training conducted by Creative Management Consultants on 8th June 2018.
6. Attended Faculty Development Program on NEXT GEN Teaching Methodology (Let's Make a Change) held at Sri Sairam Engineering College during 20 – 21 January 2018. Resource Person: Mr. Sujith Kumar, Maatram Foundation & Location Head – HR, Infosys Ltd.
7. Attended Faculty Development Program on "Cloud Computing" organized by Department of Information Technology in association with Tata Consultancy Services at Sri Sairam Engineering College on 5th May 2014.
8. Attended ISO 9001:2008 Quality Management System and Audit Training conducted by Creative Management Consultants during 11 – 12 October 2011.
9. National Seminar on "Graph Theory and its Applications" organized by the Department of Mathematics Meenakshi College for Women, Chennai, 8th September 2010.
10. Staff development programme on Industrial Design and Delivery organized by the Department of Computer Science and Engineering, Sri Sai Ram Engineering College, Chennai.
11. Two day International Conference on Computers, Controls and Communications INCONCCC, Sri Sai Ram Engineering College, August 2004.
12. One day training program for "Internal Quality Auditor" conducted by Creative Management Consultants, 10th May 2003.
13. Participated in the International Conference on Operations Research for Development (ICORD2002) organized by the Department of Industrial Engineering, Anna University, 27-30 December 2002.
14. One day seminar on "Application of Mathematics in Engineering" organized by Department of Applied Science & Humanities, M.I.T., Anna University, Chennai, 30th September 1999.

NPTEL / Swayam Online courses completed:

1. **Introduction to R software**, July – Sept 2017 (8 weeks course), consolidated score: 99%
2. **Constrained and Unconstrained Optimization**, July – Oct 2017 (12 weeks course), consolidated score: 90%
3. **Numerical Linear Algebra**, Jan – April 2018 (12 weeks course), consolidated score: 77%
4. **Problem Solving through Programming in C**, Jan – April 2018 (12 weeks course), consolidated score: 92%
5. **The Joy of Computing using Python**, July – Oct 2018 (12 weeks course), consolidated score: 93%
6. **Matrix Analysis with Applications**, Aug – Sept 2018 (8 weeks course), consolidated score: 73%
7. **Probability and Statistics**, Jan – April 2019 (12 weeks course), consolidated score: 81%
8. **Programming in Java**, Jan – April 2019 (12 weeks course), consolidated score: 83%
9. **Discrete Mathematics**, Jan – April 2019 (12 weeks course), consolidated score: 75%
10. **Mathematical Finance,** Jul – Oct 2019 (12 weeks course), consolidated score: 69%
11. **An Introduction to Programming through C++**, Jul – Oct 2019 (12 weeks course), consolidated score: 85%
12. **Differential Calculus**, Jul – Oct 2019 (12 weeks course), consolidated score: 91%
13. **Linear Algebra**, Jan – Apr 2020 (12 weeks course), consolidated score: 95%
14. **Data Analytics with Python**, Jan – Apr 2020 (12 weeks course), consolidated score: 93%
15. **Programming Fundamentals**, online non-credit course authorized by Duke University and offered through Coursera.
16. Completed Online courses Module - 1 to 8 conducted by NITTTR.
17. **Programming, Data structures and Algorithms using Python**, Jan - March 2024 (8 weeks course), consolidated score: 79%
18. **Accreditation and Outcome based Learning,** Aug - Oct 2023 (8 weeks course), consolidated score: 84%

19. **Foundations of R-software**, Jul - Oct 2023 (12 weeks course), consolidated score: 92%