


Sri Sai Ram Engineering College
Department Of Humanities and Sciences

<p><i>Name:</i> Dr. S. Ramakrishnan</p>	
<p><i>Designation:</i></p>	<p>Professor, Department of Mathematics</p>
<p><i>Qualification:</i></p>	<p>M.Sc., M. Phil., Ph.D., PGDIT Cleared CSIR-NET (June 2011) (Secured 42nd rank)</p>
<p><i>Area of Specialization:</i></p>	<p>Functional Analysis Chemical Graph Theory</p>
<p><i>Experience :</i></p>	<p><i>Teaching: UG: 30 years</i></p> <p style="text-align: center;"><i>PG: 23 years</i></p> <p><i>Industry: 2 years</i></p>
<p><i>No. of Workshops / Conferences / FDPs attended:</i></p> <p><i>Online Courses completed:</i></p>	<p>29</p> <p>23</p>

<i>Publication :</i>	<i>Journals</i> <i>National : NIL</i> <i>International : 5</i>
	<i>Conferences</i> <i>National : 5</i> <i>International : 7</i>
<i>Research Guidance:</i>	<i>NIL</i>
<i>General:</i>	<i>Life Member of ISTE (LM30502)</i> <i>Life Member of AMTI (L02043)</i> <i>Member of IEEE (98395417)</i> <i>Member of College Accreditation and ISO Committee.</i>
<i>Staff Achievements:</i>	<i>Received "The Best Professor" Educationist Teacher's day award – 2013 from Education Today.</i> <i>Received a Merit Certificate from Lions Club of Madras Metropolitan South on the Occasion of Teachers Day Celebrations 2006.</i>

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
<i>UG</i>	<i>B.Sc.</i>	<i>Mathematics</i>	<i>1986</i>	<i>Loyola College</i>	<i>Madras University</i>	<i>63%</i>	<i>I</i>
<i>PG</i>	<i>M.Sc.</i>	<i>Mathematics</i>	<i>1988</i>	<i>RKM Vivekananda College</i>	<i>Madras University</i>	<i>58%</i>	<i>II</i>
	<i>M. Phil.</i>	<i>Functional Analysis Mathematics</i>	<i>1990</i>	<i>RKM Vivekananda College</i>	<i>Madras University</i>	<i>68%</i>	<i>I</i>
<i>Doctorate</i>	<i>Ph.D.</i>	<i>Chemical Graph Theory</i>	<i>2016</i>	<i>Anna University</i>	<i>Anna University</i>		

Academic Experience: As on 31.07.2022

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
<i>Guru Nanak College (Evening)</i>	<i>Lecturer</i>	<i>01-11-1993</i>	<i>30-06-1995</i>	<i>1</i>	<i>7</i>	<i>30</i>
<i>Sri Sai Ram Engineering College</i>	<i>Lecturer</i>	<i>02.07.1995</i>	<i>31-12-1998</i>	<i>3</i>	<i>5</i>	<i>30</i>
	<i>Senior Lecturer</i>	<i>01-01-1999</i>	<i>31-07-2004</i>	<i>5</i>	<i>6</i>	<i>31</i>
	<i>Assistant Professor</i>	<i>01-08-2004</i>	<i>31-07-2009</i>	<i>4</i>	<i>11</i>	<i>31</i>
	<i>Associate Professor</i>	<i>01-08-2009</i>	<i>31-07-2010</i>	<i>0</i>	<i>11</i>	<i>31</i>
	<i>Professor</i>	<i>01-08-2010</i>	<i>Till Date</i>	<i>13</i>	<i>0</i>	<i>0</i>
Total				29	9	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](https://doi.org/10.20894/ijcoa.101.003.001.014)

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>
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>

Google Scholar Citations: 53, h-index: 4, i10-index: 2

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. *Attended and successfully completed AICTE Training and Learning (ATAL) Academy online FDP on "Blended Learning and Flipped Classroom" from 31-8-2020 to 4-9-2020 at NITTTR, Chandigarh, Score: 93.3%.*
3. *Attended and successfully completed AICTE Training and Learning (ATAL) Academy online FDP on "Learning Management System" from 21-9-2020 to 25-9-2020 at NITTTR, Chennai, Score: 91%.*
4. *Attended and successfully completed AICTE Training and Learning (ATAL) Academy online FDP on "Online Teaching and Learning Technologies" from 17-8-2020 to 21-8-2020 at MNNIT, Allahabad, Score: 83.3%*
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 / NITTTR Online courses completed:

1. **Introduction to R software**, July – Sept 2017 (8 -week course), consolidated score: 99%
2. **Constrained and Unconstrained Optimization**, July – Oct 2017 (12-week course), consolidated score: 90%
3. **Numerical Linear Algebra**, Jan – April 2018 (12-week course), consolidated score: 77%
4. **Problem Solving through Programming in C**, Jan – April 2018 (12-week course), consolidated score: 92%
5. **The Joy of Computing using Python**, July – Oct 2018 (12-week course), consolidated score: 93%
6. **Matrix Analysis with Applications**, Aug – Sept 2018 (8 week course), consolidated score: 73%
7. **Probability and Statistics**, Jan – April 2019 (12-week course), consolidated score: 81%
8. **Programming in Java**, Jan – April 2019 (12-week course), consolidated score: 83%
9. **Discrete Mathematics**, Jan – April 2019 (12-week course), consolidated score: 75%
10. **Mathematical Finance**, Jul – Oct 2019 (12-week course), consolidated score: 69%
11. **An Introduction to Programming through C++**, Jul – Oct 2019 (12-week course), consolidated score: 85%
12. **Differential Calculus**, Jul – Oct 2019 (12-week course), consolidated score: 91%
13. **Linear Algebra**, Jan – Apr 2020 (12-week course), consolidated score: 95%
14. **Data Analytics with Python**, Jan – Apr 2020 (12-week course), consolidated score: 93%
15. **Programming Fundamentals**, online non-credit course authorized by Duke University and offered through Coursera.
16. **Module - 1 - Orientation towards Technical Education and Curriculum Aspects**, online course offered by NITTTR. Score: 89%

17. *Module – 2 – **Professional Ethics and Sustainability**, online course offered by NITTTR, Score: 86.6%*
18. *Module – 3 – **Communication Skills, Modes & Knowledge dissemination**, online course offered by NITTTR, Score: 84.3%*
19. *Module – 4 – **Instructional Planning and Delivery**, online course offered by NITTTR, Score: 86.7%*
20. *Module - 5 - **Technology enabled learning and life-long self-learning**, online course offered by NITTTR, Score: 87%*
21. *Module - 6 - **Student Assessment and Evaluation**, online course offered by NITTTR, Score: 80%*
22. *Module - 7 - **Creative Problem Solving, Innovation and Meaningful Research and Development**, online course offered by NITTTR, Score: 73%*
23. *Module - 8 - **Institutional Management and Administrative Procedures**, online course offered by NITTTR, Score: 64%*