


FACULTY PROFILE

Name	:	Dr.A. Sasikala	
Designation	:	Associate Professor	
Department	:	Mathematics	
Educational Qualification	:	M.Sc., M.Phil., SLST., Ph.D.	
Experience	:	34 years	
Subject of Interest	:	Graph Theory	
Publications	:	<ol style="list-style-type: none">1. A.Solairaju, A.Sasikala, C. Vimala, Gracefulness of a spanning tree of the graph of product of P_m and C_n, 'The Global Journal of Pure and Applied Mathematics and Mathematical Sciences', Vol. 1, No-2 (July-Dec 2008), pp: 133-136.2. A.Solairaju, A.Sasikala, C. Vimala, Edge - odd Gracefulness of a spanning tree of Cartesian product P_2 and C_n 'Pacific-Asian Journal of Mathematics', Vol. 3, No. 1-2, Dec 2009, pp:39-42.3. A.Solairaju, A.Sasikala, C.Vimala, Edge - odd Gracefulness of $2-nC_4$, $3-nC_4$, $4-nC_4$, International Journal of Computer Applications, Vol.10, November 2010, pp: 4-6.4. A.Solairaju, A.Sasikala, C.Vimala, Edge - odd Gracefulness of Cartesian product of C_3 and C_n, International Journal of Computer Applications, Vol.10, November 2010, pp:7-9.5. A.Solairaju, A.Sasikala, C. Vimala, Edge - odd Gracefulness of Strong product of P_2 and C_n, International Journal of Computer Applications, Vol.10, November 2010, pp:1-3.6. A.Solairaju, A.Sasikala, C. Vimala, Edge - odd Gracefulness of Cartesian product of P_2 and C_n, Journal of Analysis and Computer Applications, July-December 2010, Vol.6, No. 2, pp:91-95.7. A.Solairaju, A.Sasikala, C. Vimala, Edge - odd Gracefulness of $1-2KC_4$, International Journal of Applied Mathematical Analysis and Applications, July-December 2010, Vol.5, No. 2, pp:113-115.	

8. A.Solairaju, A.Sasikala, C. Vimala, Edge - odd Gracefulness of Cartesian product of P_3 and C_n , International Journal of Applied Mathematical Analysis and Applications, July- December 2010, Vol.5, No. 2, pp:139-143.
9. A.Solairaju, A.Sasikala, C. Vimala, Even - Edge Gracefulness of strong product of P_2 and C_n , International Journal of Applied Mathematical Analysis and Applications, July- December 2010, Vol.5, No. 2, pp:123-127.
10. A.Solairaju, A.Sasikala, C. Vimala, Edge - odd Gracefulness of strong product of P_3 and C_n , Journal of Analysis and Computation, Vol. 6, July-December 2010, pp: 97-101.
11. A.Sasikala, C. Vimala, Edge- odd gracefulness of cartesian product of P_3 and W_n , The PMU Journal of Humanities and Sciences, Vol.3, No.2(July – Dec 2012), pp.73-78.
12. A.Sasikala, C. Vimala, Some New Families of Edge Odd Graceful Graphs, IJSER Volume 5, Issue 9, September 2014 Edition (ISSN 2229-5518) pp: 822 – 824.
13. Sasikala, C. Vimala, New classes of Edge Odd Graceful Graphs, International Journal of Latest Trends in Engineering and Technology, Vol. 6 Issue 3 January 2016, ISSN: 2278-621X, pp: 476 – 480.
14. Vimala, A. Sasikala, K.Ruba, Edge-Odd Gracefulness of the Tripartite Graph, International Journal of All Research Education and Scientific Methods, Vol. 4, Issue 12, December 2016, pp:10 – 16.
15. Sasikala, P.Muthulakshmi, Edge Odd Gracefulness of Connected Graphs $P_n + N_8$ & $P_n + N_9$, International Journal of Recent Trends in Engineering & Research, Vol. 02, Issue 12, December 2016, pp: 124 - 126.
16. Sasikala, C. Vimala, Edge – Odd gracefulness of some graphs, International Journal of Creative Research Thoughts, Volume 6,

	<p>Issue 2, April 2018, pp:633 – 636.</p> <p>17. Vimala, A.Sasikala, K.Ruba, Edge – Odd gracefulfulness of the graphs P_{2n}, nP_4, $2P_n$ and $F_{2,n}$, International Journal of Latest Trends in Engineering and Technology, Volume 10, Issue 2, April 2018, pp:006 – 009.</p> <p>18. A.Sasikala, R.Priyanka, Mean Graceful Labeling of Some Graphs, International Journal of Scientific Research and Review, Volume 7, Issue 6, June 2018, pp: 216 – 225.</p> <p>19. Sasikala A, Vimala C, Edge Odd graceful Labeling of graph $D_m B(2n, 2n)$, International Journal of Research and Analytical Reviews, Vol. 7 Issue 1, February 2020, P-ISSN: 2349-5138, E-ISSN 2348-1269, pp: 865 – 867.</p> <p>20. Sasikala and C. Vimala, Edge Odd Graceful Labeling of Umbrella Graph and $N(2C_3 + P_2)$, Advances in Mathematics: Scientific Journal 9 (2020), no. 3, 1307 – 1314 ISSN: 1857 – 8365 (printed); 1857-8438(electronic) Spec. Issue on ICNTMMA.</p> <p>21. Sasikala and P. Oviya, Vertex Odd Mean Labeling of Some Graphs With Pendant Edges, Advances and Applications in Mathematical Sciences Volume 20, Issue 5, March 2021, ISSN: 1857 – 8365 Pages 775-779.</p> <p>22. Dr.A. Sasikala, M. Harikumaran, Vertex Odd Mean Labeling of Double Triangular Snake $(D(kc_n) + 2nP_2)$, Jelly Fish $J(M, N)$, P_n or H_i, and an alternate triangular snake $A(T_n)$, Compliance Engineering Journal, Volume 12, Issue 4, April 2021, ISSN: 0898, Pages 419-429.</p> <p>23. K.Gayathri, Research Schoolar/Maths, Dr.A.Sasikala, Asso. Prof. / Maths, Dr.C.Sekar/ Asso. Prof. / Maths, Prime Cordial Labeling of Some Graphs, 1947 (2021) 012016 IOP Publishing doi:10.1088/1742-6596/1947/1/012016, July 2021</p> <p>24. SASIKALA and V. POOVILA, TWO MODULO THREE GRACEFUL LABELING OF BIPARTITE GRAPHS, Advances</p>
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		<p>and Applications in Mathematical Sciences Volume 21, Issue 10, August 2022, Pages 5989-5996</p> <p>25. Inbaraj Subiksha and Arunachalam Sasikala, SUPER FELICITOUS DIFFERENCE LABELING OF PATH AND CYCLE RELATED GRAPHS, SOUTH INDIA JOURNAL OF SOCIAL SCIENCES ISSN: 0972 – 8945, Vol. XXI, No.40S, January – June: 2023, Pages 88-94</p> <p>26. Asokan Arundathi and Arunachalam Sasikala, FELICITOUS LABELING OF LADDER, PATH AND STAR RELATED GRAPHS, SOUTH INDIA JOURNAL OF SOCIAL SCIENCES ISSN: 0972 – 8945, Vol. XXI, No.40S, January – June: 2023, Pages 72 -78</p> <p>27. I. Athal,Byeon Haewon, A. Sasikala, B. Narsimha Reddy, Vedyappan Govindan, P. Maddileti, K. Saritha, B. Shashidar Reddy, S. Rajakumari, Jagadish V. Tawade, Nissren Tamam, Barno Sayfutdinovna Abdullaeva, Jasgurpreetsingh Chohan, and Raghawendra Mishra Combined impact of radiation and chemical reaction on MHD hyperbolic tangent nanofluid boundary layer flow past a stretching sheet</p>
Awards and Achievements	:	<p>Best Teacher Award for the year 1995 - 96</p> <p>Best Outstanding Teacher Award for the year 2005 – 06</p> <p>Zonal level 1st prize winner in “Srinivasa Ramanujam Mathematical Competitions” conducted by ISTE and National Board of Higher Mathematics (NBHM) in the year 2014</p> <p>Best NSS Programme Officer for the year 2017 – 2018</p> <p>NPTEL Course Completed</p> <p>Swayam ARPIT course for Career Advancement Scheme promotion for Leadership and Governance in Higher Education from 1st December to 31st March 2021 with a B grade</p>

in the proctored examination held on 21.08.2021.

Completed and secured grade A+ in LaTeX for students, Engineers and Scientists an online course conducted from 2nd August 2021 to 21st November 2021 offered by IIT, Bombay.

Completed and secured Elite Silver in Engineering Mathematics II online course conducted from January 2022 to April 2022, Offered by IIT, Kharagpur.

Completed and secured Elite Silver in Operations Research online course conducted from July 2022 to September 2022, Offered by IIT, Roorkee.

Completed and secured Elite Silver in Advanced Graph Theory online course conducted from January 2023 to March 2023, Offered by IIT, Kanpur.

Completed and secured Elite Silver in Development Research Methods from August – October 2023 (8-week course) and the exam held on 29.10.2023.

Book Publication

Engineering Mathematics

Calculus and Linear Algebra

Probability and Statistics

Numerical Methods

GoogleScholar Link : <https://scholar.google.com/citations?user=7voHpyMAAAAJ&hl=en>

Conferences/FDP/Seminars/ Workshops attended : Attended “Performance Appraisal and Development System for Technical Institutions”, organized by ISTE, R.E.C, Trichy on June 28th to 30th, 1995.

Attended “Dissemination of Red Cross Principles & International Humanitarian Law”, organized by Indian Red Cross Society, Thanjavur on March 15th to 16th 1996.

Attended “General Orientation Course”, organized by Madras School of Social Work on September 18th to 27th 1996.

Attended “Legal Awareness for Women Teachers from Southern States Sponsored by National Commission for Women, New Delhi”, organized by Sri Padmavathi Mahila Visvavidyalayam, Tirupati on February 3rd to 7th, 1997.

Attended “Application of Mathematics”, organized by St. Joseph College, Trichy on February 08th & 09th, 1999.

Attended “Dissemination of TQM Concepts”, organized by PMCTW, Vallam on September 10th to 11th, 1999.

Attended “ISTE II Annual Convention on Strategic Planning”, organized by Sri Ramakrishna Engg. College, Coimbatore on September 18th, 1999.

Attended “Application of Mathematics”, organized by PSNA college, Dindigul on September 6th 2002.

Attended “Communication Skills”, organized by Periyar Maniammai College of Technology for Women, Thanjavur on 5th & 6th November 2004.

Attended “Gender Sensitisation in Built Environment”, organized by Council of Architecture, PMCTW, Vallam on March 22nd to 26th 2004.

Attended “Subject Updating Programme in Engg. Maths for the Teachers of Engg. Colleges”, organized by Department of Mathematics, PMCTW, Vallam Sponsored by AICTE-ISTE, on June 21st to July 2nd 2004.

Attended National workshop on “Decomposition of Graphs and Product graphs”, organized by Department of Mathematics, Annamalai University, Chidambaram, January 3rd to 6th 2006.

Attended National workshop on “Fuzzy Mathematics and its

Applications”, organized by Department of Mathematics, Alagappa University, Karaikudi, on March 3rd and 4th 2006.

Attended State level seminar on “Applied Mathematics”, organized by Department of Mathematics, Bon Secours College for Women, Thanjavur, on February 14th, 2007.

Attended 4th National Conference on “Mathematical and Computational Models”, organized by Department of Mathematics and Computer Applications, PSG College of Technology Coimbatore, on 13th-15th December 2007.

Attended National Conference on “Fuzzy Mathematics and Graph theory”, organized by Department of Mathematics and Computer Applications, Jamal Mohamed College, Trichy, on 27th 28th March 2008.

Attended International Conference on “Mathematics & Computer Science”, organized by Department of Mathematics and Computer Applications, Loyola College, Chennai, on January 5th & 6th, 2009.

Attended Two day workshop on “Recent advances in graph theory and its applications”, organized by Department of Mathematics, PMU, Vallam on 28.08.09 & 29.08.09.

Attended National Conference on “Advanced Mathematics Scientific Development & Engg. Application”, organized by PG & Research Department of Mathematics – K.N.Govt.Arts College for women, Thanjavur on 31st August and 1st September 2009.

Attended Conference on “MATLAB and its Application”, organized by Department of Electronics and Communication Engineering, PMU, Vallam, on 2nd and 3rd September 2009.

Attended Conference on “Japanese Style of Management”, organized by Department of Management Studies, PMU, Vallam, on 20th November 2009.

Attended Two-day seminar on “Cryptography”, organized by Department of Mathematics, PMU, Vallam, on 23rd and 24th

November 2009.

Attended Two-day seminar on “Graph theory and its application”, organized by Department of Mathematics, PMU, Vallam, on 26rd and 27th March 2010.

Attended One day National seminar “Fuzzy logic and its application”, organized by Department of Mathematics, PMU, Vallam, on 23rd April 2010.

Attended One day National seminar “Fuzzy logic and its application”, organized by Department of Mathematics, PMU, Vallam, on 2rd July 2010.

Attended Two day National seminar on “Emerging “Simulation and Modeling”, organized by Department of Mathematics, PMU, Vallam, on 21st and 22nd January 2011.

Attended Two-day Workshop (National level) on “Developing Research Aptitude in Select Areas in Mathematics for College Teachers”, organized by Department of Mathematics, PMU, Vallam, on 3rd and 4th May 2011.

Attended a Two-day International Conference on Algebra and its Applications organized by Department of Mathematics, PMU, Vallam (Funded by NBHM (DAE)) during 14th and 15th December 2011.

Attended a One-day workshop on Applications of MATLAB software in Mathematical field organized by Department of Mathematics, PMU, Vallam on 25.02.2012.

Attended a One-day Seminar on Contributions of Some Women Mathematicians from India organized by Department of Mathematics, PMU, Vallam on 08.03.2012.

Attended a One-day workshop on Applications of MATLAB organized by Department of Mathematics, PMU, Vallam on 10.03.2012.

Attended a One-day Seminar on Statistics and its applications in Engineering, Department of Mathematics, PMU, Vallam on 18.04.2012.

Attended a One-day Seminar on Discrete Mathematics and its applications, Department of Mathematics, PMU, Vallam on 27.07.2012.

Attended a One-day International Conference on Recent trends in Discrete Mathematics and its applications to Science & Engg. organized by Department of Mathematics, PMU, Vallam during December 3rd, 2013.

Attended a Two-week ISTE workshop on signals and systems, organized by PMU and IIT Kharagpur under NMEICT on January 2nd to 12th, 2014.

Attended an SDP – Title Guidance and Counseling, organized by Dean Academic on October 2014.

Attended Faculty Development Programme on Outcome Based Education organized by Dean Academic on 03.01.2015.

Attended SDP – Algebra and Analysis organized by Department of Mathematics, PMU, Vallam on 24.01.2015.

Attended Faculty Development Programme on Outcome Based Education organized by Dean Academic, PMU during 09.06.2015 – 12.06.2015.

Attended a Two – week ISTE Short Term Training Programme on Engineering Physics conducted by Indian Institute of Technology, Bombay from 8th to 18th December 2015.

Completed ISO 9001: 2008 Internal Quality Auditor Course conducted at PMU on 17th & 18th March 2016.

Attended 31st Annual Conference of the Ramanujan Mathematical Society held during June 18 – 21, 2016

Attended a Two-Day workshop on Skill Up – gradation and Training Needs for University Teachers on 27th & 28th January 2017.

Attended Two Day Management Development Programme on Teaching Learning Process organised by Internal Quality Assurance Cell, Periyar

Maniammai Institute of Science & Technology, Thanjavur on 16th & 17th August 2019

Attended National Workshop on Dynamical System with MATLAB and its Computations organized by School of Mathematics, Alagappa University, Karaikudi during 09.01.2020 – 11.01.2020.

Attended International Conference on Mathematical Methods and Computation (ICOMAC 2020) organized by PG & Research Department of Mathematics Jamal Mohamed College (Autonomous), Tiruchirappalli, during 19.02.2020.

Participated Online sessions to promote Innovation, IPR, Entrepreneurship, and Start – ups among HEIs organised by Institution's Innovation Council, MHRD's Innovation Cell, New Delhi from 28th April to 22nd May 2020.

Attended a Webinar on Current Research in Fuzzy Mathematics organized by Department of Mathematics Sri. Pushpam College, Poondi during 24.05.2020.

Attended a Webinar on Research Methodology organized by Loyola College Chennai during 12.06.2020- 13.06.2020.

Attended a Webinar on NP – Completeness organized by Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai during 17.06.2020.

Participated in the Two-Day Online FDP on Applications of Mathematics in Engineering organised by Department of Mathematics & Humanities, Mahatma Gandhi Institute of Technology, Hyderabad during 3rd and 4th July 2020.

Attended The Bodhi Tree and SAFE Tools for Effective Online Teaching: A Hands-on Workshop organized by Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India on 21st June 2020.

Attended International Virtual Conference on Conceptualizing in

Mathematical Sciences & English Language jointly organised by the Department of Mathematics and English of Hindusthan College of Engineering and Technology, Pollachi, Coimbatore during 28.08.2020–29.08.2020.

Attended Refresher Course in Mathematics organized by Department of Mathematics, Ramanujan College, University of Delhi during 16.03.2021 – 30.03.2021.

Attended AICTE-ISTE Sponsored One Week Virtual Refresher Program On Applied Mathematics organized by Department of Mathematics, M.Kumarasamy College of Engineering, Thalavapalayam, Karur 639 113 during 19.04.2021- 24.04.2021.

Attended Six Days STTP on Innovative Tools organized by Department of Science and Humanities of Hindusthan College of Engineering and Technology, Pollachi, Coimbatore during 03.05.2021– 08.05.2021.

Attended AICTE-ISTE Sponsored One Week Virtual Refresher Program On Applied Mathematics organized by Department of Mathematics, M.Kumarasamy College of Engineering, Thalavapalayam, Karur during 17.05.2021– 22.05.2021.

Attended Online workshop on Recent Trends in Domination and Graph Labelling organized by Department of Mathematics, Ramanujan College, University of Delhi during 27.05.2021- 31.05.2021.

Attended National Level Online Technical workshop on *"INTELLECTUAL PROPERTY RIGHTS organized by Tamilnadu State Council for Science and Technology Patent Information Centre, Govt. of Tamilnadu, Chennai. & Research and Development Cell, G.T.N.Arts College (Autonomous), Dindigul during 21.06.2021- 22.06.2021.

Attended Five Days Faculty Development Program On

Mathematical Tools organized by Department of Mathematics, Hindusthan College of Engineering and Technology, Pollachi, Coimbatore during 21.06.2021- 25.06.2021.

Attended Five Days FDP on Mathematical Developments in Cryptography and Data Science organised by the Department of Mathematics, Ramaiah Institute of Technology, Bangaluru from 09.08.2021 – 13.08.2021.

Attended Research based One Week FDP on from Research to Publication organised by Guru Shree Shanthivijai Jain College For Women, Chennai from 8.08.21 – 25.08.21

Attended Six Days National Level FDP on Digital Teaching Methods in Higher Education organised by the Department of Commerce, Hindustan College of Engineering and Technology, Coimbatore from 23.08.21 – 28.08.21.

Attended CSI Sponsored one-week online FDP on Data Science organised by Department of CSE, PMIST from 24.08.21 – 28.08.21

Attended six Days International Level FDP on Emerging Research Advances and Trends in Intelligence Knowledge Engineering Systems organised by Sai Ram Institute of Technology, Chennai from 30.09.21 – 06.10.21.

Participated in One Week State Level Online Workshop on CRACKING CSIR – UGC/SET EXAMS organised by the Department of Mathematics, PMIST, Thanjavur from 14.02.22 – 19.02.22.

Attended a six days FDP on Advanced Security Mechanism in Networks organized by Department of Computer Science and Applications in association with Computer Society of India, PMIST.

Participated in the Professional Development Programme on Empowering Research & Statistical Analysis conducted by

		<p>NITTTR, Chennai from 25.07.22 to 29.07.22.</p> <p>Attended FDP on SPSS, R and Data Science organized by Dept. of Mathematics in association with Centre for HRD, PMIST on 19th – 24th September, 2022.</p> <p>NPTEL AICTE FDP on Advanced Graph Theory conducted from January 2023 to March 2023, Offered by IIT, Kanpur.</p> <p>Attended Online Two-Week Refresher Course in "Mathematics" on theme PYTHON & VEDIC MATHEMATICS, organised by Teaching Learning Centre & Department Of Mathematics, Ramanujan College, University of Delhi in collaboration with JSS Mahavidyapeetha, JSS Science And Technology University Sri Jayachamarajendra College Of Engineering JSS Technical Institutions Campus, Mysuru from 13th - 26th July, 2023.</p> <p>Participated in the 5-Days International FDP on Unleashing Emerging Research Trends and Advancements in Computer Science 2.0, organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 24th July to 28th July 2023.</p> <p>Participated in the “Graph Theory with Python: A Two-Day Online Hands-On Workshop to Unlock its Power" organised by The Indian Mathematics Professors Association (IMPA) and Infinity Research and Development Institute on 13 & 14 August 2023.</p>
		<p>Attended One Week Online Short-Term Training Programme on “Python, R and Latex” organised by Department of Mathematics, PMIST from 20th to 26th September, 2023</p>
		<p>NPTEL-AICTE FDP (online course) certificate on Development Research Methods from August – October 2023 (8 week course) and the exam held on 29.10.2023 organised by IIT, Chennai.</p>

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