

CURRICULUM - VITAE

- 1. Full Name** : Dr. B.S.L.SOUJANYA, G.
- 2. Designation** : Assistant Professor in Mathematics
- 3. Date of Birth** : 12-06-1976
- 4. Qualifications** : M.Sc. Applied Mathematics,
Ph. D. (N.I.T.Warangal).
- 5. Present Position** : Assistant Professor in Mathematics
Dept. of Mathematics,
Kakatiya University, Warangal.

6. Teaching Experience:

- 1. Working as Assistant Professor in Mathematics, Dept. of Mathematics, Kakatiya University, Warangal from 20th September to till date.**
- Worked as a Sr. Lecturer in Mathematics at Ramappa Engineering College, Warangal from 4th Sept 2006 to July 2010.
- Worked as a Lecturer in Mathematics at Alluri Institute of Management Sciences, Warangal from 6th Dec, 2000 to 2nd Sept 2006.
- Worked as a Lecturer in Mathematics at Kakatiya Mahila Degree College, Hanamkonda from 1st June 1998 to Nov 2000.

7. Research Experience:

	Position	Institute	Supervisor	Topic	Date of Joining	Date of Leaving
1	Research Scholar	N.I.T., Warangal	Prof. Y.N.Reddy	Numerical Methods for a Class of Singular Perturbation Problems	July 2010	Dec 2013

- 8. Research Projects** : Nil

9. Area of Research : Numerical Analysis, Numerical Solution to Singular Perturbation Problems, Singularly Perturbed Delay Problems and Singular-Singular Perturbation Problems

10. Research Publications :

1. A Seventh Order Numerical Method for Singular Perturbed Differential-Difference Equations with Negative Shift, *Nonlinear Analysis: Modelling and Control*, Vol. 16, No. 2, 206-219, 2011.
2. Non-Iterative Numerical Integration Method for singular Perturbation Problems Exhibiting Internal and Twin Boundary Layers, *International Journal of Applied Mathematics and Computation*, Vol. 3(1), pp. 9-20, 2011.
3. Fourth Order Finite Difference Method for Singularly Perturbed Two-Point Singular Boundary Value Problems, *International J. of Math. Sci. & Engg. Appls.*, Vol. 5, No. II, pp. 327-338, 2011.
4. A Fitted Galerkin Method for Singularly Perturbed Differential Equations with Layer Behaviour”, *International Journal of Applied Science and Engineering*, Vol.9, No.3, pp.195-206, 2011.
5. Fitted Six Order Tridiagonal Finite Difference Method for Singular Perturbation Problems, *International e journal of Mathematics and Engineering*, Vol. 147, pp. 1338-1351, 2012.
6. Numerical Solution of Singular Perturbation Problems via Deviating Argument and Exponential Fitting, *American Journal of Computational and Applied Mathematics*, 2(2), 49-54, 2012.
7. Asymptotic – Numerical method for Third-Order Singular Perturbation Problems, *International Journal of Applied Science and Engineering*, Vol. 10, No. 3, pp. 241-248, 2012.
8. Numerical Integration Method for Singularly Perturbed Delay Differential Equations, *International Journal of Applied Science and Engineering*, Vol. 10, No. 3, pp. 249-261, 2012.
9. Numerical Integration Method for Singular Perturbation Delay Differential Equations with Layer or Oscillatory Behaviour, *Applied and Computational Mathematics*, Vol. 12, No. 2, pp. 211-221, 2013 .

10. An Exponentially Fitted Non Symmetric Finite Difference Method for Singular Perturbation Problems, WSEAS Transactions on Mathematics, Vol. 12, Issue 7, 2013, pp. 767-776.
11. Numerical Solution of Singular Perturbation Problems Exhibiting Dual Layers, International Journal of Advances in Engineering Sciences and Applied Mathematics (Springer), DOI 10.1007/s12572-013-0095-1, 2013.
12. Numerical Solution of Second Order Singularly Perturbed Differential– Difference Equations with Negative Shift, *International Journal of Nonlinear Science*, Vol.18, No.3, pp.200-209, 2014.
13. Numerical Integration Method for Singular-Singularly Perturbed Two-Point Boundary Value Problems, *Procedia Engineering*, Vol. 127, pp. 545-552, 2015.
14. Computational Method for Singularly Perturbed Delay Differential Equations with Layer or Oscillatory Behaviour, *Applied Mathematics and Information Sciences*, 10 (2), pp. 1-10, 2016.

11. Papers Presented in Conferences/Seminars:

International Conferences:

1. Numerical Integration Method for Singularly Perturbed Delay Differential Equations with Layer or Oscillatory behaviour, International Conference on Vibration Problems, Kakatiya University, Feb 18-20, 2015.
2. Numerical Integration Method for Singular – Singularly Perturbed Two-Point Boundary Value Problems, International Conference on Computational Heat and Mass Transfer, N.I.T., Warangal, 30 Nov-2 Dec 2015.

National Conferences:

1. Solution of LPP by Dual Simplex Method when the dual feasibility fails, National Conference on Mathematical Modelling in Engineering Technologies, XVII Congress of Andhra Pradesh Society for Mathematical Sciences, 13-15, Feb 2009.
2. A Fitted Galerkin Method for Singularly Perturbed Differential Equations with Layer Behaviour in the Conference on New Vistas in Computational Fluid Dynamics in Engineering, N.I.T. Warangal, 27-29, Jan 2012.

3. Numerical integration method for singularly perturbed delay differential equations, XXII Congress and National Conference on Recent Trends in Applications of Mathematics, Anurag Group of Institutions, Hyderabad, Dec 13-15, 2013.
4. Numerical Solution of Singular Perturbation Problems Exhibiting Dual Boundary Layers, Recent Advances in Fluid Mechanics, Osmania University, Hyderabad, 30-31, May 2016.
5. A higher order compact difference scheme for singularly perturbed differential equations, National Conference on “Applied Nonlinear Dynamics”, N.I.T., Warangal, 21-22, Dec, 2016.

(b) Attended

1. Participated in a National Seminar on Current Trends in Applied Mathematics, R.E.C., Warangal, 6-7, Dec, 1996.
2. Participated in a National Seminar on Recent Advances in Applied Mathematics and Computational Methods, R.E.C., Warangal, 17-18 Aug, 2001.
3. Participated in 13th Congress of Andhra Pradesh Society for Mathematical Sciences, N.I.T. Warangal, 10-12, December 2004.
4. Participated in 15th Congress of Andhra Pradesh Society for Mathematical Sciences, Kakatiya University, Warangal, 11-13, August 2006.
5. Participated in a seminar on Software Testing from 21-22, Jan, 2006, Alluri Institute of Management Sciences, Warangal.

(c) Workshops

1. Participated in a National Workshop on Bio-Mechanics, March 18-19, 2005, K.I.T.S., Singapur, Huzurabad.
2. Participated in a National Workshop on Mathematical Modelling and Simulation, Vaagdevi College of Engineering, Warangal, 29-30, July, 2006.
3. Participated in a National Workshop on Numerical Methods in Engineering, N.I.T., Warangal, 4-5th April, 2008.
4. Participated in a National Workshop on Mathematics Teaching Methodology in Engineering Institutions at SR Engineering College, 6-7, Sept, 2008.
5. Participated in a National Workshop on Advanced Computational Applications using
6. ANSYS FLUENT at N.I.T., Warangal, 7th January, 2011.

7. Participated in a STTP on Mathematical Modelling & Numerical Techniques at N.I.T., Warangal, 17-21, January, 2011.
8. Participated in a one week workshop on Mathematical Modelling in Engineering at N.I.T., Warangal, 2-6, Dec, 2013.
9. A Three Day National Level Faculty Development Workshop on “ Technology for Development and Delivery of Instructional Materials for E-Learning, N.I.T., Warangal, 08-10, Dec 2016.

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| 14. Membership of Academic Bodies | : | APSMS, ISTE |
| 15. Important Assignments | : | - |
| 16. Assignments in Univ.Service | : | - |
| 17. Community Service Activities | : | - |
| 18. Awards and Honours | : | Nil |
| 19. Countries Visited | : | Nil |
| 20. Mailing Address | : | Dr. B.S.L. Soujanya, G
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Manga Nilayam, Ramakrishna colony,
N.I.T. Road, Hanamkonda-506004 |

(Dr. B.S.L. Soujanya, G.)