
Curriculum Vitae

Dr. Sreenivasulu Ballem M.Sc., M.Phil., Ph.D. with 08 yrs Exp.

Assistant Professor, Department of Mathematics,

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Area of Research: Numerical Analysis



Career Objective

To work hard with full dedication for the achievement of organization objective, and to use my educational background and skills to impart knowledge to learners by using modern and traditional approaches to develop the learner's skills.

Education

- ✓ Ph.D (Finite Element Method) during 2011-2014 from National Institute of Technology Warangal.
(Title of thesis:- "*Numerical solution of higher order boundary value problems by Galerkin method with different orders of B-splines*".)
- ✓ M.Phil. (Applied Mathematics) during 2006-2007 from Pondicherry University, Puducherry, with 8.19/10 CGPA.
- ✓ M.Sc. (Applied Mathematics) during 2004-2006 from University of Hyderabad, Hyderabad, A.P., with 6.03/10 CGPA.
- ✓ B.Sc. (M.S.Cs) during 2001 - 2004 from N.B.K.R. Science and Arts College, Vidynagar (Affiliated to Sri Venkateswara University, A.P.), with 69%.

Achievements

- ✓ Qualified All India Graduate Aptitude Test in Engineering 2017.
- ✓ Best paper Awarded in National Conference on Applied Nonlinear Dynamics-2016 which was organised by NIT Warangal.
- ✓ Qualified All India Graduate Aptitude Test in Engineering 2016.
- ✓ Qualified All India Graduate Aptitude Test in Engineering 2011.
- ✓ Qualified Faculty Eligible Test which was conducted by JNTU Hyderabad in 2010.
- ✓ Secured 11th Rank in All India Entrance for Ph.D., Pondicherry University in 2008.
- ✓ Secured 5th Rank in All India Entrance for M.Phil., Pondicherry University in 2006.

Teaching Experience

- ★ Working as Assistant Professor of Mathematics in CUK-Kalaburagi, Karnataka (March, 2018 to till date).
- ★ Worked as Assistant Professor of Mathematics in GMRIT-Rajam, Andhra Pradesh (December, 2017 to February 2018).
- ★ Worked as an Adjunct Assistant Professor of Practice in the Department of Mathematics, VNIT Nagpur, Maharashtra (July 2017 to December 2017).
- ★ Worked as an Adhoc faculty in the Department of Mathematics, NIT Warangal, Telangana State (July 2016 to May 2017).
- ★ Worked as an Adhoc faculty in the Department of Mathematics, NIT Warangal, Telangana State (July 2015 to May 2016).
- ★ Worked as an Adhoc faculty in the Department of Mathematics, NIT Warangal, Telangana State (August 2014 to May 2015).
- ★ Worked as Assistant Professor of Mathematics for a period of 03 years in Vardhaman College of Engineering, Shamshabad, Telangana State (August, 2008 - July, 2011).
- ★ Worked as Guest faculty in Mathematics for a period of 01 years in Pondicherry University, Puducherry (July, 2007 - May, 2008).

- ★ Department of Mathematics, NIT Warangal provided me an opportunity to teach B.Tech (Mathematics-I) for a semesters during my Ph.D.

Additional Responsibilities

- ★ Library Incharge, Class Incharge for 2 years in Vardhaman College of Engineering, Shamshabad, Telangana State (June, 2009 - July, 2011).

Papers Published/Accepted

1. K.N.S. Kasi Viswandham, **Sreenivasulu Ballem**, “Numerical solution of fourth order boundary value problems by Galerkin method with cubic B-splines”, *International Journal of Engineering Science and Innovative Technology*, Vol.2(3), pp: 41-53, 2013.
2. K.N.S. Kasi Viswandham, **Sreenivasulu Ballem**, “Numerical solution of fifth order boundary value problems by Galerkin method with quartic B-splines”, *International Journal of Computer Applications*, Vol. 77(17), pp:7-12, 2013.
3. K.N.S. Kasi Viswandham, **Sreenivasulu Ballem**, “Numerical solution of sixth order boundary value problems by Galerkin method with quintic B-splines”, *International Journal for Mathematical Sciences and Engineering Applications*, Vol. 8(2), pp:371-385, 2014.
4. K.N.S. Kasi Viswandham, **Sreenivasulu Ballem**, “Numerical solution of eighth order boundary value problems by Galerkin method with quintic B-splines”, *International Journal of Computer Applications*, Vol. 89(15), pp:7-13, 2014.
5. K.N.S. Kasi Viswandham, **Sreenivasulu Ballem**, “Numerical solution of tenth order boundary value problems by Galerkin method with quintic B-splines”, *International Journal of Innovation in Science and Mathematics*, Vol. 2(3), pp:288-294, 2014.
6. K.N.S. Kasi Viswandham, **Sreenivasulu Ballem**, “Numerical solution of tenth order boundary value problems by Galerkin method with sextic B-splines”, *International Journal of Applied Mathematics and Statistical Sciences*, Vol. 3(3), pp:17-30, 2014.
7. K.N.S. Kasi Viswandham, **Sreenivasulu Ballem**, “Numerical solution of tenth order boundary value problems by Galerkin method with septic B-splines”, *International Journal of Applied Science and Engineering*, Vol. 13(3), pp:247-260, 2015.

8. **Sreenivasulu Ballem**, K.N.S. Kasi Viswandham, “Numerical solution of eighth order boundary value problems by Galerkin method with septic B-splines”, *Procedia Engineering*, Vol. 127, pp:1370-1377, 2015.
 9. **Sreenivasulu Ballem**, K.N.S. Kasi Viswandham, “Numerical solution of sixth order boundary value problems by Galerkin method with quartic B-splines”, Accepted for publishing in *Lecture Notes in Mechanical Engineering* , 2018.
- ★ Also communicated 1 more papers to various reputed international journal.

List of Papers Presented

1. “Numerical solution of fourth order boundary value by Galerkin method with cubic B-splines” in national conference on the *XXI Congress of Andhra Pradesh Society for Mathematical Sciences (APSMS)*, organized by the Department of Mathematics, Sri Venkateshwara University, Tirupati during 7 - 9 December, 2012.
2. “Numerical solution of fourth order boundary value by Galerkin method with cubic B-splines” in *57th Congress of ISTAM (An International Meet)*, organized by the Department of Applied Mathematics, DIAT Pune during 17 - 20 December, 2012.
3. “Numerical solution of sixth order boundary value by Galerkin method with quartic B-splines” in *58th congress of ISTAM (An International Meet)*, organized by the Department of Aerospace Engineering & Applied Mechanics, BESU, Howrah, West Bengal during 18 - 21 December, 2013.
4. “Numerical solution of fifth Order boundary value by Galerkin method with quartic B-splines” in the National conference *on Recent Advances in Numerical Methods and Its Applications*, organized by the Department of Mathematics, Pondicherry University, Puducherry, during 26 - 27, January, 2014.
5. “Numerical solution of tenth order boundary value by Galerkin method with septic B-splines” in *59th congress of ISTAM (An International Meet)*, organized by the Alliance University, Bangalore, during 18 - 21 December, 2014.
6. “Numerical solution of eighth order boundary value by Galerkin method with septic B-splines” in *International Conference on Computational Heat and Mass Transfer* , organized by the Department of Mathematics, NIT-Warangal, during Nov 30- Dec 2, 2015.

7. “Numerical solution of fifth order boundary value by Galerkin method with cubic B-splines” in *National Conference on Applied Nonlinear Dynamics* , organized by the Department of Mathematics, NIT-Warangal, during Dec 21-22, 2016.
8. “Numerical solution of sixth order boundary value by Galerkin method with quartic B-splines” in *International Conference on Numerical Heat Transfer and Fluid Flow* , organized by the Department of Mathematics, NIT-Warangal, during January 19-21, 2018.

Conferences / Workshops / STTPs Attended

1. A National conference on *Mathematical Modeling and Simulation* at XX Congress of Andhra Pradesh Society for Mathematical Science (APSMS), December 09-11, 2011, SBIT, Khammam.
2. A National conference on *New Vistas in Computational Fluid Dynamics in Engineering*, organized by the Department of Mathematics, NIT Warangal during 27 -29 January, 2012.
3. A National workshop on *Recent Trends in Partial Differential Equations and Applications*, March 18-19, 2012, University of Hyderabad, Hyderabad
4. A one day National workshop on *Applications of Mathematics in Computers & Engineering Field*, organized by the Department of Basic Sciences & Humanities, Vaagdevi College of Engineering, Bollikunta, Warangal on 23rd July, 2013.
5. A one day National workshop on *Good Laboratory Practices*, 13th September, 2013, NIT Warangal, Warangal.
6. A workshop on *Scientific Computing with MATLAB*, organized by Mechanical Engineering Department, NIT Warangal during 22 - 26 September, 2013.
7. A National workshop on *Advances in Computational Fluid Dynamics: Methods and Applications*, organized by Mechanical Engineering Department, NIT Warangal during 17 - 19 October, 2013.
8. A National workshop on *Computational Methods in Engineering & Science*, organized by the Department of Mathematics, NIT Warangal, during 21 - 25 October, 2013.

9. A National workshop on *Mathematical Modeling in Engineering*, organized by the Department of Mathematics, NIT Warangal, during 2 - 6 December, 2013.
10. A National workshop on *Mathematical Foundation of Advanced Finite Element Methods*, organized by the Department of Mathematics, BITS- Goa, during 26th December 2013 to 3rd January 2014.
11. Short Term Training Programme on *Advanced Computational Methods in Engineering and Science*, organized by the Department of Mathematics, NIT-Warangal, during 1-3 April, 2015.
12. Short Term Training Programme on *Advanced Numerical Methods in Fluid Dynamics*, organized by the Department of Mathematics, NIT-Warangal, during 17-20 April, 2015.
13. Summer School on *Matrix Methods and Fractional Calculus*, organized by the Centre for Mathematical and Statistical Sciences, Peechi(KFRI), Kerala during 15th June to 10th July, 2015.
14. Short Term Training Programme on *Mathematical Modeling and Computational Techniques*, organized by the Department of Mathematics, NIT-Warangal, during 7-11 December, 2015.
15. A National Conference on *Women in Higher Education*, organized by the Department of Mathematics, Humanities and Social Sciences, NIT- Warangal, during 30-31 May 2016.
16. A Training Programme on *Instructional Design and Delivery Methods*, organized by Teaching Learning Centre, NIT Warangal during 12 - 14 November, 2016.
17. A Training Programme on *Instructional Design and Delivery Methods*, organized by Teaching Learning Centre, NIT Warangal during 22 - 24 December, 2016.

Membership of Professional Bodies

1. Life member of *Andhra Pradesh Society for Mathematical Sciences (APSMS)*, Osmania University, Hyderabad, T.S.
2. Life member of *Indian Society of Theoretical and Applied Mechanics (ISTAM)*, IIT Kharagpur, W.B., INDIA.

Competence in Computer Applications

- ⊗ MS Office.
- ⊗ FORTRAN, C, C++.
- ⊗ MATLAB, Mathematica & L^AT_EX

Strengths

- ⊗ Eager to learn and flexible to work in a team as well as individual with never say die attitude.
- ⊗ Hard working, self motivated and positive nature.
- ⊗ Good communication skills.

References

1. Prof. K. N. S. Kasi Viswanadham,
Department of Mathematics,
National Institute of Technology Warangal,
Telangana State-506 004,
India.
Contact: 09866028867(M)
E-Mail: kasi_nitw@yahoo.co.in.
2. Prof. Y. N. Reddy,
Department of Mathematics,
National Institute of Technology Warangal,
Telangana State-506 004,
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Contact: 09849268724(M)
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3. Prof. J.V.Ramana Murthy,
Department of Mathematics,
National Institute of Technology Warangal,
Telangana State-506 004,

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4. Prof. D.Srinivasacharya,
Department of Mathematics,
National Institute of Technology Warangal,
Telangana State-506 004,
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Personal Profile

Name : Sreenivasulu Ballem
Father Name : Polaiah
Date of Birth : 06 - 05 - 1984
Marital status : Married
Religion : Hindu
Languages known : Telugu, English
Permanent Address : H. No. 1 - 44
Vill: Allampadu
Post: Molaganuru
Mondal: Kota
District: SPSR Nellore, Pin: 524 412
A.P., India.

DECLARATION:

I hereby declare that the information given above is true and correct.

Date: 08-05-2018

Signature:

