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Education:

- Doctor of Philosophy (PhD.) Visvesvaraya Technological University (VTU), Belgaum on “Behaviour of masonry under axial, eccentric and lateral loading” – 2013
- Master of Engineering (M.E.) in Structures, UVCE, Bangalore University – 1992
- Bachelor of Engineering (B.E.) in Civil Engineering, M S Ramaiah Institute of Technology (MSRIT), Bangalore, Bangalore University, Karnataka – 1984

Research Interests:

- Structural Masonry
- Reuse and recycle – Materials & Technology
- Embodied energy aspects in buildings

Publications:

Journals:

1. Mangala Keshava, K V Vijayendra & S Raghunath, “Strength efficiency of commonly used Blockwork Masonry” , Intl. Journal of Earth Sciences and Engg, ISSN 0974-5904, Vol.03 No.04, August 2010, pp 586-598
2. Mangala Keshava, S Raghunath, P Vivek & K S Jagadish, “Influence of normal stress on the flexural and shear strength of masonry-an experimental investigation”, Journal of Structural Engineering, Vol.39, No.3, August-September 2012, pp 372-379
3. Darshan B, Mangala Keshava, Preethi R K, “Study on use of recycled fine aggregates in masonry mortar”, The International Reviewer, Vol 1, Issue 2, July-December 2014, pp 18-20, ISSN 2395-1575
4. Jeevan N, Mangala keshava, Archana K, “RMC Plant waste-A misplaced resource”, Bulletin of ACCE (I), ISSN 2347-8071, Vol.3 No.3, Nov-Dec 2014 pp 9-11 &57.

5. Shrinath Hogade, Mangala Keshava, "Experimental investigation on Brick masonry made with alternate mortar mix (1:6)", The International Reviewer, Vol 3, Issue 2, July-December 2016, pp 26-31, ISSN 2395-1575
6. B N Varsha, S Raghunath, Mangala Keshava, "Influence of Choice of Structural system & In-fill masonry on the Embodied Energy & cost of a Low-rise Residential Urban- Building Indian case study, Open Journal of Energy Efficiency, 2017, 6, 41-60, ISSN (o)- 2169-2645, Scientific Research Publishing <http://www.scirp.org/journal/ojee>
7. Vikas Attigeri, Mangala Keshava, 'Effect of various treatment methods on recycled concrete aggregates and its role in recycled aggregate concrete', ICI journal, ISSN 0972-2998, Vol 18 April-June 2017 No. 1 pp 9-15

International Conferences:

1. Mangala Keshava, Nikhil V Jolad & S Raghunath, "Studies on the Evaluation of Stress Reduction Factor of Masonry Through Experiments on Full-scale walls", Proceedings of the sixth Structural Engineering Convention, SEC2008, SERC, Chennai, 18-20th December 2008, Vol 2, pp 1033 – 1041
2. S Raghunath, Mangala Keshava, Hemanth kumar M N & Manish S, "Flexural strength of Hollow concrete block prisms under normal stress", International Conference on Advances in Architecture and Civil Engineering, AARCV-2012, MSRIT, Bangalore, 21-23 June 2012, ISBN 378-93-82338-01-7, Vol 1, pp 84-88
3. Preethi R K and Mangala Keshava, "Studies on Properties and applications of recycled aggregates obtained from Building demolition waste", International conference on Energy, Environment and Eco-friendly Buildings (ICEEEB), Jain University, Bangalore, 19-21 September 2013
4. Archana K, Mangala Keshava, "Compressive strength of M-20 concrete mix made with recycled aggregates obtained from RMC waste", International conference on Sustainable Civil Infrastructure (ICSCI-2014), Organized by ASCE-India section, Dept. of civil Engg, IIT-H and Build4India, Hitex Exhibition Centre, Hyderabad, October 17-18, 2014
5. Deepa Doddamani, Mangala Keshava, "AAC Block masonry with RMM- an experimental and numerical study", Tenth Structural Engineering Convention (SEC-2016), organized by CSIR- SERC, IIT-M and Anna University between 21-23 December 2016 at CSIR-SERC Chennai.
6. Pavan J, Mangala Keshava, Shrinath, " A study on behavior of block masonry with alternatives as fine aggregate in mortar", Tenth Structural Engineering Convention (SEC-2016), organized by CSIR- SERC, IIT-M and Anna University between 21-23 December 2016 at CSIR-SERC Chennai.

National Conferences:

1. Mangala Keshava, Hemanth shenoy, Raghunath S & Biswarup Saikia, "Behaviour of Masonry walls under eccentric loading- A Non-linear finite Element Analysis", National Conference on Recent Advances in Structural Engg. RASE, JNTU, Ananthpur, AP, 4th April 2008, pp 148-158
2. Nalina M M, Mangala Keshava, S Raghunath, "Influence of strength and elastic Properties on masonry and stress reduction factors", National Conference on Challenges in Research & Technology in the coming decades (CRT-2013), Shree Dharmasthala Manjunatheshwara Institute of Technology, Ujire, Karnataka, 27-28 September 2013
3. Darshan B, Mangala Keshava, Preethi RK, " Study on use of recycled fine aggregates in masonry mortar", I-day National Conference on Indian Congress on Curbing E-wastes, ICCE-2013, Acharya Institute of Technology Bangalore, 9th November 2013
4. Vikas Attigeri, Mangala Keshava, "Various treatment methods to enhance the properties of recycled coarse aggregates- A Literature review", National conference on Emerging trends in

Engineering Technologies (ETET-2015), held at Jyothy Institute of Technology, Bangalore on 20-21st February 2015.

5. Published an article titled 'Quality aspects of Ready-mixed concrete (RMC) waste', in the seminar document of Concrete Panorama and Deminar 2015 on 'Quality Assurance and Innovations in Ready-mixed concrete' held at Nimhans convention centre, organized by ICI-KBC in association with RMCMA, QCI and CCMA held during 24-25th of February 2015
6. Deepa M Naik, Mangala Keshava, Poster presentation titled ' Utilization of waste as sustainable alternatives to river sand in various mortar mixes', 8th Annual KSTA conference on Science and Technology for FenNext Urban Space, organized by KSTA and BIT, held at BIT, Bangalore on 5th and 6th of Nov, 2015
7. Shrinath Hogade, Mangala Keshava, 'Experimental Investigation on brick masonry made with alternate mortar mix (1:6), Indian Congress of Civil Engineers ICCE 2015, organized by Dept of Civil Engg, Acharya Institute of Technology, Bangalore on 5th of December 2015
8. Sweta K Dukkarwadi, Mangala Keshava, Maruti, "Experimental study of Full scale walls, with and without lateral restraints", 5th National conference on Emerging Trends in Engineering Technologies, ETET-2016, 11th and 12th of March 2016, Jyothy Institute of Technology, Bangalore.
9. S P Santosh Kumar, Mangala Keshava, Subhodh Gururaj Balur, " Flexural and Shear Strength of Stabilized mud block masonry prisms under varying normal stress", 5th National conference on Emerging Trends in Engineering Technologies, ETET-2016, 11th and 12th of March 2016, Jyothy Institute of Technology, Bangalore.
10. Deepa Doddamani, Mangala Keshava, "A study on light weight concrete blocks- A Review", 5th National conference on Emerging Trends in Engineering Technologies, ETET-2016, 11th and 12th of March 2016, Jyothy Institute of Technology, Bangalore.
11. Karthik M, Mangala keshava, Rajani M, Deepa Doddamani, " Behaviour of Hollow concrete block masonry with Ready mix mortar under various loads", 5th National conference on Emerging Trends in Engineering Technologies, ETET-2016, 11th and 12th of March 2016, Jyothy Institute of Technology, Bangalore.
12. Chaitra K, Mangala Keshava, Vidyadhara V, " Empirical expression for masonry strength and modulus of elasticity of brick and block assemblages", International Conference on Emerging Trends in Engineering (ICETE-2017), organized by NMAMIT, NITTE, Udupi district on 12.05.2017

External Funding and R & D Projects undertaken/completed:

1. "Modernisation & Upgradation of survey lab for development of effective & advanced methodologies in surveying", obtained Rs.7.00L from AICTE under MODROBS in 2003.
2. "Development of Load Bearing Earthquake Resistant Reinforced Masonry", sponsored by VTU under research grants scheme, 2008, Rs.21.23Lakhs
3. "Design of Testing Methods to obtain flexure and Shear strength of masonry", sponsored by BMSCE, 2009, Rs.1.80Lakhs

Invited Lectures:

- "Evaluation of masonry through experimental techniques", Workshop on "Design of Masonry Structures", conducted by Dept. of Civil Engineering, NIE, Mysore, sponsored by TEQIP-II, August 2013

- “Strength of walls-Effect of Slenderness and Eccentricity”, Workshop on “Structural Masonry – Analysis and Design”, conducted by Dept. of Civil Engineering, RVCE, Bangalore, sponsored by TEQIP-II, 16th -18th December 2013.
- “A study on Experimental investigations using loading frame”, A talk at Kamavari Sangha School of Engineering and Management (KSSEM), for PG-CSE students, 11.08.2014, Bangalore
- “Recycling of Materials”, Workshop on “Alternate Building Materials and Technologies”, conducted by Dept. of Civil Engineering, NIE, Mysore, sponsored by TEQIP-II, 22nd of December 2014
- “Masonry-Past-Present-Future”, A talk at Kamavari Sangha School of Engineering and Management (KSSEM), for PG-CSE students, 07.06.2017, Bangalore

Thesis supervised:

PhD under supervision:

1. “Embodied Energy, Life cycle energy and cost optimization of Buildings”, Registered by Varsha BN in October 2013
2. “Dynamic Analysis of masonry structures”, Registered by Ashwin M Joshi in October 2013
3. “An Analytical Investigation To Compute The Strength Of Masonry Under Axial And Lateral Loading”, Registered by Nalina M M in 2015
4. “Experimental investigation on behaviour of concrete using waste plastic as alternative coarse aggregate to conventional coarse aggregate”, Registered by Karthik in 2015

M Tech Projects supervised:

1. Non-Linear behavior of masonry walls under eccentric load, 2005
2. A comprehensive study on masonry units, 2006
3. A study on Ultrahigh performance concrete, 2006
4. A study on Table Moulded Brick Wallethes with cement and Mud mortars, 2007
5. Experimental Investigation on the Compression, Tensile, Flexure and Shear Strength of Bricks and Cement Mortar, 2007
6. Compressive Strength and Modulus of Elasticity of a Full Scale Brick Masonry wall, 2007
7. Evaluation of Stress reduction factors (Ks) through experiments on full scale masonry walls, 2008
8. Stress Reduction Factors (Ks) for Masonry-An Analytical Approach, 2009
9. A study on behavior of solid concrete block masonry under flexure and shear loading conditions, 2009
10. An experimental study on the flexural strength of brick masonry, 2009
11. Behaviour of Full-Scale brick walls under axial and eccentric loads, 2010
12. Evaluation of Stress Reduction factors based on tests on axially and eccentrically loaded walls, 2010
13. Flexural and Shear strength of Hollow concrete block masonry prisms under normal stress, 2010
14. Flexural and shear strength of hollow concrete block masonry using ready-made mortar, 2011
15. Experimental and analytical study of unreinforced brick masonry, 2011
16. Flexural and shear strength of stabilized mud block masonry prisms under varying normal stress, 2011
17. Influence of strength and elastic properties of masonry on stress reduction factors, 2012

18. Indian, European & British codal reviews on strength and reduction factors for south Indian masonry, 2012
19. Analytical study on computation of stress reduction factors for concrete block masonry, 2012
20. A study on use of recycled fine aggregates in masonry mortar, 2012
21. Study on Recycled aggregates and its application in masonry mortar and cement concrete, 2013
22. A study on the properties and applications of concrete waste obtained from RMC Plants, 2013
23. Evaluation of masonry strength through regression analysis and its relationship with modulus of masonry
24. A study on the Recycling Techniques and Properties of concrete waste from NAMMA Metro Piles
25. Studies on Fresh and hardened properties of M-20 concrete using recycled aggregates obtained from Ready-Mixed-concrete waste
26. Study on suitability of different alternatives to river sand in mortar for brick masonry
27. A study on behavior of block masonry with alternative materials as fine aggregate in mortar
28. Effect of various treatment methods on recycled coarse aggregates and its role in recycled aggregate concrete
29. Study on Properties of various mortar mixes using sustainable fine aggregates obtained from alternate sources
30. A study on masonry blocks made from RMC sludge waste

Membership of Professional Societies:

- Life member – Indian Society of Technical Education, ISTE (LM:32790)

Events Organized:

- Worked as a coordinator for 'Two week training programme in painting and wood polishing for under privileged urban women', BMSIT, July 2006
- Worked as coordinator for the bridge course for PG students of Civil Dept., on, "Probability and Statistics", sponsored by TEQIP-II, resource person Prof. J P Ganjigatti, IEM Dept. SIT, Tumkur, Sir M V Hall, BMSCE, 12.03.2014 to 23.03.2013
- Worked as coordinator for the FDP on "Competent Engineering Teaching- Challenges and solutions – (CETCS-2014)", sponsored by TEQIP-II, BMSCE, 18-22nd August 2014

Personal Details:

Date of Birth	18-04-1967
Marital Status	Married