

CURRICULUM VITAE

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EDUCATIONAL QUALIFICATIONS

Sl. No	Degree Obtained	Name of the College / University	Specialization	Year of Completion
1	PhD	University Malaysia Sabah, Malaysia	Materials & Structures	2006
2	M.E	College of Engineering, Guindy	Construction Engineering & Management	2002
3	B.E	College of Engineering, Guindy	Civil Engineering	1998
4	D.C.E	Murugappa Polytechnic, Chennai,	Civil Engineering	1988

PROFESSIONAL EXPERIENCE

Name of the Institution / Organization	Designation	Period of service	
		From	To
University College of Engineering, Panruti	Professor	16.06.2021	Till date
University College of Engineering, Ariyalur	Professor	31.08.2015	15-06-2021
University College of Engineering, Ariyalur	Associate Professor	22.08.2014	30.08.2015
University College of Engineering, Panruti	Associate Professor	31.08.2012	21.08.2014
University College of Engineering, Panruti	Assistant Professor	31.08.2009	30.08.2012

RESEARCH SUPERVISION COMPLETED / ON GOING

Completed PhD Research Scholars as Supervisor : 10

Ongoing PhD Research Scholars as Supervisor : 10

LIST OF PUBLISHED JOURNAL PAPERS

1. **P.S.Kumar**, M.A.Mannan, V.J.Kurian, H.Achyutha, Effect of Crushed Sandstone Sand on the Properties of High Performance Concrete, Journal of Civil Engineering Research and Practice, 2 (2), 2005, pp 1-11.
2. **P.S.Kumar**, M.A.Mannan, V.J.Kurian, H.Achyutha, Investigation on the flexural behaviour of high performance reinforced concrete beams, Building and Environment, Elsevier publications, 42(7), 2007, pp.2622-2629
3. **P.S.Kumar**, M.A.Mannan, V.J.Kurian, High performance reinforced concrete beams made with sandstone reactive aggregates, 2008, The Open Civil Engineering Journal, Vol.2, pp 41-50.
4. H. Hamza ,H. Asrah, **P.S. Kumar**, M.A. Mannan, “Determination of potential alkali silica reactivity of aggregates from Sabah, Malaysia” Malaysia Construction Research Journal, Volume 5,No.2, 2009, pp.10-17.
5. K. Gunasekaran, **P.S. Kumar** and M. Lakshmipathy, Compatibility Studies on The Coconut Shell Cement Composites, 2010, Indian Concrete Institute, Journal, Vol.11, No.1, April-June 2010, pp.27-31.
6. S. Kandaswamy **P.S. Kumar**, Sound Transmission Performance of Coconut Fiber Impregnated Ferro-Cement and Wood Wool Panels on the Loss Factor of Concrete Floors in Multistorey Buildings, International Journal for Housing Science and its applications, 34(2), 2010, pp.117-126,
7. P.Senthilkumar, P. Kandaswamy, S, **P.S.Kumar**, Experimental Investigations of Sound Transmission on Fiber Impregnated Hollow Blocks, Institute of Engineers India, 2010, pp .8 - 11.
8. K. Gunasekaran, **P.S. Kumar** and M. Lakshmipathy, “Mechanical and bond properties of coconut shell concrete”, Construction and Building Materials, Vol. 25, 2011, pp. 92-98.
9. K. Gunasekaran, **P.S. Kumar** and M. Lakshmipathy, Study on properties of Coconut Shell as Aggregate for concrete, Indian Concrete Institute Journal, Vol.12,.2, 2011, pp. 27-33
10. C. S.Chong,, H. Asrah, ,**P S. Kumar**, M.A.Mannan, Optimisation of Concrete Mix Design using Sandstone Reactive Aggregate in Sabah , Malaysian Construction Research Journal, 9(2), 2011, pp.50-62.
11. K. Gunasekaran **P.S. Kumar**, M. Lakshmipathy, Mechanical and bond properties of coconut shell concrete, Construction and Building Materials, 25, 2011, pp.92-98.

12. K. Gunasekaran R. Annadurai, P.S. **Kumar**, Long term study on compressive and bond strength of coconut shell aggregate concrete, *Construction and Building Materials*, 28, 2012, pp.208–215.
13. K. Gunasekaran R. Annadurai **P.S. Kumar**, Plastic shrinkage and deflection characteristics of coconut shell concrete slab, *Construction and Building Materials*, 43, 2013, pp203–207.
14. K. Gunasekaran R. Annadurai, **P.S. Kumar**, Study on reinforced lightweight coconut shell concrete beam behavior under flexure, *Materials and Design*, 33(46), 2013, pp.157-167.
15. K. Gunasekaran R. Annadurai P.S. **Kumar**, A study on some durability properties of coconut shell aggregate concrete, *Materials and Structures*,48(5),2013, pp.1253-1264.
16. M.V. V Thirumuruga Poiyamozi, P. **S Kumar**, A.K.Kaliluthin, Assessment of Time and Cost Risks in Construction Projects, *International Journal of Applied Engineering Research*, 10(61), 2015, pp.62-66.
17. Thirumuruga Poiyamozi, MVV, Kumar, **P.S**, ‘Management of Time and Cost Risks in Design and Build Bridge Projects’, *Journal of Applied Science Research*, vol. 11 no. 22, 2015, pp. 111-115.
18. **Suresh Kumar, P**, Periyasamy, M, ‘Suitability of groundwater for irrigation purpose in Veadasandur block, Dindigul district’, *Australian Journal of Basic and Applied Sciences*, vol.9, no. 35, 2015, pp. 102-105.
19. M.V.V Thirumuruga Poiyamozi, P.S **Kumar**, Investigation of Vital Risk in Construction Projects, *Ecology, Environment and Conservation*,22(4),2016, pp.1897-1904.
20. P. Balamurugan, **P.S. Kumar**, Quality of Ground Water Assessment in Salem District using GIS Techniques, *Advances in Natural and Applied Sciences*,10(3).2016...pp.22-31.
21. **P.S. Kumar**, S. Arunkumar, P. Balamurugan, Comparative Studies on Application of Various Adsorbents in Fire Industry Waste water, *Advances in Natural and Applied Sciences*, 10(3) 2016, pp. 19-57.
22. **Kumar, P.S**, Periyasamy, M, ‘Monitoring of groundwater quality for domestic and irrigation purpose in nillakottai block, dindigul district, Tamilnadu, India’, *Ecology, Environment and Conservation*, vol. 23, no. 3, 2017, pp. 1751-1755.
23. Indiradevi, S & **Kumar, P.S.**, ‘Effectiveness of optimal back propogation neural network for dynamic behaviour of steel and tube with light weight concrete’, *Journal of Computational and Theoretical Nano Science*, vol. 15, no. 1, 2017, pp. 31-39.
24. **P.S. Kumar** , P. Balamurugan ,Evaluation of groundwater quality by using water quality index near magnesite mines, Salem District, Tamilnadu, India, *NEW DELHI CENTRE World Water Council*, Volume: 6, Issue: 2, 2017, pp 29- 34. .

25. Thirumuruga Poiyamozhi, MVV, Kumar, **P.S**, 'Critical Risk Factors Associated with Construction Projects of Tamilnadu, India', Ecology, Environment and Conservation, Vol.24, No.2, 2018, pp.790-798.
26. **Kumar, P.S**, Balamurugan, P, Evaluation of groundwater quality for irrigation purposes in Attur taluk, Salem, Tamilnadu, India, Water and Energy International, vol. 61, no. 4, 2018, pp. 59-64.
27. P. Palanisamy, P. **Suresh Kumar**, 'Effect of molarity in Geo Polymer Earth Brick reinforced with fibrous coir wastes using sandy soil and quarry dust as fine aggregate', Journal of Case Studies in Construction Materials, vol. 8, 2018, pp. 347-358.
28. **P.S. Kumar**, P. Balamurugan, Evaluation of groundwater quality for irrigation purpose in attur taluk, Salem, Tamilnadu, India, Water and Energy International, Volume: 61, Issue 4, 2018, pp. 59- 64.
29. **Kumar, P.S.**, Balamurugan, P 2019, 'Suitability of groundwater for irrigation purposes in Omalur Taluk, Salem, Tamilnadu, India', Indian Journal of ecology, vol. 46, no. 1, pp. 1-6.
30. Neelamegam P and **Suresh Kumar, P**, 'Deep Neural Network based - Mechanical Behavior Analysis for various Masonry Infill walls with Hybrid Fiber Mortar', Structural Concrete, Vol. 20, Issue No. 6, 2019, pp. 1974-1985.
31. R.Chandrasekaran , **P.S. Kumar**, 'The Assessment and Prediction of Landslide Susceptibility Zonation (LSZ) by Relative Effect Method (Re) and GIS in Coonoor Block, Nilgiri, District, Tamil Nadu, India', International Journal of Engineering Research and Technology, vol. 7, Issue 11, 2019, pp. 1-7.
32. R. Chandrasekaran & **P.S. Kumar**, 'An Integrated Approach of Statistical, Remote Sensing and GIS techniques for Evaluation of Vulnerable Cut Slopes', Applied Mathematics and Information Sciences, vol. 13, no. 6, 2019, pp. 923-933.
33. R. Chandrasekaran & **P.S. Kumar**, 'Application of Remote Sensing and GIS in Conventional Weightage Modelling for Landslide Hazard Zonations (LHZ) in Nilgiri District, Tamil Nadu, India', Indian Journal of Ecology, vol. 46, Issue 3, 2019, pp. 464-469.
34. R.Tamizhsudar, G. Dhamodhara Kannan, **P. Suresh Kumar**, 'Analytical Study on Cold Formed Steel Flexural Members Using Finite Strip Method', International Journal of Technical Innovation in Modern Engineering & Science, Vol. 5, Issue 3, 2019, pp. 1185 - 1192.
35. M.Monisa Sivagami, G.Dhamodhara Kannan, **P.Suresh Kumar**, 'Buckling Analysis of Rectangular Hollow Flange Cold Formed Steel Section', International Journal of Technical Innovation in Modern Engineering & Science, Vol. 5, Issue 3, 2019, pp. 611-615.

- 36. P.S. Kumar**, P. Balamurugan, Suitability of Ground Water for Irrigation Purpose in Omalur Taluk, Salem, Tamil Nadu, India, Indian Journal of Ecology, 46(1),2019, pp.1-6.
- 37. Neelamegam P and Suresh Kumar, P**, ‘An Investigation of Retrofitted Masonry Infilled Frames (RMIF) with Hybrid Fibers: An Experimental Approach’, Surface Review and Letters, 2020, published in online.
- 38. P. Balamurugan, P.S. Kumar**, K. Shankar, Dataset on the suitability of groundwater for drinking and irrigation purposes in the Sarabanga River region, Tamil Nadu, India, Data in brief, 29, 105255, 2020, pp.1-13.
- 39. P.S.Kumar**, G.Dhamodhara Kannan, Numerical Studies on the Flexural Behaviour of Rectangular Hollow Flange Cold Formed Steel Sections, Solid State Technology Volume: 63 Issue: 5 2020, pp.5543-5557.
- 40. P. Balamurugan, P.S. Kumar**, K. Shankar, R.nagavinothini and K.Vijayasurya , Non-Carcinogenic Risk Assessment Of Groundwater In Southern Part of Salem District In Tamilnadu, India, Journal of Chilean Chemical Society, 65, No.1 , 2020, ,pp.4697-4707
- 41. P.S.Kumar**, G. Dhamodhara Kannan, Efficacy of Hollow Flanges in Economizing the Cold-Formed Steel Construction, Solid State Technology Volume: 63 Issue: 5 2020,pp.5375-5386.
- 42. Balamurugan Panneerselvam, Suresh Kumar Paramasivam**, Shankar Karupppannan, Nagavinothini Ravichandran, Pauline Selvaraj, A GIS-based evaluation of hydrochemical characterisation of groundwater in hard rock region, South Tamil Nadu, India, Arabian Journal of Geosciences, 2020, 13:837.
- 43. P. Palanisamy, P.S.Kumar**, Compressive and Shear Strength Assessment of Geopolymer Earth Brick Masonry Based on Numerical Modeling Using Ansys. Solid State Technology Volume: 63 Issue: 5 2020, pp.4576-4589.
- 44. P. Palanisamy, P.S.Kumar**, Effects of Molarity on Bond Strength of Brick Masonry With Alkali Activated Composite Mud Mortar-Modeling By Ansys, Solid State Technology Volume: 63 Issue: 5 2020,pp.7628-7639
- 45. P.S.Kumar**, B.Jeyanth, Stress-Strain performance characteristics for Polyethylene Terephthalate Fibre Concrete, Solid State Technology Volume: 63 Issue: 5 2020, pp.8058-8066.
- 46. Balamurugan P, Kumar.P.S**, Shankar K, Sajil Kumar PJ (2020), Impact of climate and anthropogenic activities on groundwater quality for domestic and irrigation purposes in Attur region, Tamilnadu, India, Desalination and Water Treatment , Vol. 208, 2020, pp.172-195.

47. **P. S. Kumar**, S. Arun Kumar, Development of model in removal of phosphorus using natural coagulants, *International Journal of Environmental Analytical Chemistry*, 2021, pp.1-12. DOI: 10.1080/03067319.2021.1939021
48. **P.S.Kumar**, G.Dhamodhara Kannan, Optimization of CFS sections under flexure using Genetic Algorithm Optimización de secciones CFS bajo flexión usando el Algoritmo Genético, *Informes de la Construcción Vol. 73*, 2021.
49. **P.S.Kumar**, G.Dhamodhara Kannan, Effect of self-compacting concrete infill on the flexural behavior of hollow channel sections: Experimental and numerical studies, *Structural Concrete*. 2021, pp.1–21.
50. Pereasamy Palanisamy, **P. Suresh Kumar**, Strength and durability features of fiber reinforced geo-polymer earth bricks. *Journal of Asian Architecture and Building Engineering*, 2021, <https://doi.org/10.1080/13467581.2020.1869009>.

(II) LIST OF CONFERENCE PAPERS

1. M.A.Mannan, A.E.B.Daryl, C.Ganapathy, V.J.Kurian, H.Achyutha, **P.S.Kumar**, H. Asrah, “Behaviour of High Strength Concrete Subjected to Elevated Temperature”, *Proceedings of the International Conference on Advances in Concrete Composites and Structures (ICACS-2005)*, January 6-8, 2005, SERC, Chennai, India, pp.529-536.
2. **P.S.Kumar**, M.A.Mannan, V.J.Kurian, H.Achyutha, Engineering Properties of High Performance Concrete using Crushed Sandstone Sand as Fine Aggregate, *Proceedings of the International Conference on Natural Resources and Environmental Management (NREM-2005)*, November 28-30, 2005, Kuching, Sarawak, Malaysia, pp.148-158.
3. **P.S.Kumar**, M.A.Mannan, V.J.Kurian, H.Achyutha, Flexural Behaviour of High Performance Concrete Beams using Crushed Sandstone sand as Fine Aggregate, *9th International Conference on Concrete Engineering and Technology*, May 9-11, 2006, Selongor, Malaysia, pp.300-309.
4. **P.S.Kumar**, M.A.Mannan, V.J.Kurian, Durability of High Performance Concrete using Crushed Sandstone Sand as fine aggregate, *The Tenth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-10)*, Aug’3-5, 2006, Inter Continental, Bangkok, pp.689-694.
5. **P.S.Kumar**, M.A.Mannan, V.J.Kurian, H.Achyutha, Ductility of High Performance Concrete beams using sandstone aggregates, *Asia-Pacific Structural Engineering and Construction Conference (APSEC)*, Sep’ 5-6, 2006, Pan Pacific Kuala Lumpur, Malaysia.
6. K. Gunasekaran, **P.S.Kumar**, “Lightweight Concrete Using Coconut shells as Aggregate”, *Proceedings of International Conference on Advances in Concrete and Construction, ICACC-2008*, 7-9 Feb’2008, Vasavi College of Engineering, Hyderabad, , pp 450-459.

7. P.R. Kannan Rajkumar, P.S.Kumar and M. Lakshmipathy, “Properties of hybrid fiber reinforced concrete - An overview ”, Proceedings of the International Conference on ‘Innovative Building Materials, Structural Designs and construction practices (IBMSDCP-2008), Bannai Amman Institute of technology, Sathyamanagalam- 638401, Tamilnadu, India, pp. 191 -199.
8. K. Gunasekaran and **P.S.Kumar**, “Lightweight concrete mix design using coconut shell aggregate”, Proceedings of the International Conference on Innovative Building Materials, Structural Designs and construction practices (IBMSDCP-2008), Bannai Amman Institute of technology, Sathyamanagalam- 638401, Tamilnadu, India, pp. 375 – 382.
9. P.Senthil Kumar, **P.S.Kumar** and S. Kandaswamy “Sound Transmission in Building Using Lightweight Building Materials - An Overview”, XXXVI IAHS World Congress on Housing National Housing Programmes-New Visions, November 03-07, 2008, Kolkata, India, Paper accepted for publication (Full Paper submitted)
10. K. Gunasekaran and **P.S.Kumar**, “An Agricultural Waste as Aggregate in Lightweight Concrete”, Proceedings of the International Conference SEC-2008, Structural Engineering Research Centre, CSIR Campus, Taramani, Chennai- 600 113, India , Paper accepted for publication (Full Paper submitted).
11. K. Gunasekaran, **P.S.Kumar**, “Developing lightweight concrete using agricultural and industrial solid wastes”, ICI-Innovative world of concrete, December 11- 14, 2008, India Expo Centre, Expo XXI, Greater Noida Expressway, New Delhi, Paper accepted for publication (Full Paper submitted).
12. **P.Balamurugan**, P.S Kumar, “Evaluation of Groundwater Quality by using water quality index in Omalur Taluk, Salem district, Tamilnadu”, 3rd International Conference on Advanced Engineering and Technology for Sustainable Development, **2017**, Karpagam College of Engineering, Coimbatore.
13. **B.Jeyanth, P.S. Kumar** “Sustainability of Natural Aggregates by Utilizing CDW in Concrete” “RECYCLE 2020”, Indian Institute of Technology - Guwahati Feb 13 & 14, 2020, pp. 134-135
14. **B.Jeyanth, P.S.Kumar** , “Performance of Natural Organic Inhibitor on Rebar” “International Conference on sustainable Environment & Civil Engineering (ICSECE’19)” Easwari Engineering College – Chennai, March 28 & 29, 2019, pp. 468-471.
15. **P.S Kumar**, G.Dhamodhara Kannan, 2020, ‘Parametric Study On Rectangular Hollow Flange CFS Beams Using Finite Strip Method’ National Conference in Civil Engineering, (NCCE - NITK 2020), Department of Civil Engineering, National Institute of Technology, Karnataka.

16. **Kumar, PS** , Neelamegam, P 2020, ‘Comparative Study on Performance of Fiber Reinforced masonry Infilled RC Frames’, National Conference in Civil Engineering, (NCCE - NITK 2020), Department of Civil Engineering, National Institute of Technology, Karnataka.
17. Palanisamy, P, **Kumar.P.S** 2020, ‘Experimental and Numerical investigation of bond strength of brick masonry using Geo-Polymer Earth Mortar in aggressive environment’, Proceedings of the international conference ICITMSEE 2020, Kongunadu college of Engineering and Technology, Tiruchy , Tamil Nadu.
18. Palanisamy.P, **Kumar. P.S.**, 2020 ‘Technical studies on innovative sustainable and green energy building material of Geo Polymer Earthen Brick Masonry’, National Conference in Civil Engineering, (NCCE - NITK 2020), Department of Civil Engineering, National Institute of Technology, Karnataka.

LIST OF WORKSHOP / SEMINARS

1. **P.S.Kumar**, M.A.Mannan, V.J.Kurian, H.Achyutha, High Performance Concrete using Sandstone Dust as Fine Aggregate, Papers for a Half-day Workshop on Performance of Concrete Made from Agricultural and Industrial Solid Wastes and By-Products, 15th September, 2005, SKTM, UMS, Malaysia.
2. **P.S.Kumar**, M.A.Mannan, V.J.Kurian, H.Achyutha, Flexural behaviour of Reinforced High Performance Concrete beams, Papers for a Half-day Workshop on Performance of Concrete Made from Agricultural and Industrial Solid Wastes and By-Products, 15th September, 2005, SKTM, UMS, Malaysia.
3. **P.S.Kumar** and P. Eapen Sakaria, High Performance Concrete and Applications, Papers for one day Workshop Short Course on “Special Concretes-2007”, 2nd March , 2007, SRM University, Chennai, India pp.141-155.
4. **P.S.Kumar**, High Volume Fly Ash Concrete, Papers for one day Workshop Short Course on “Special Concretes-2007”, 2nd March, 2007, SRM University, Chennai, India. pp. 214-227.