

Dr. K. Baskar - Curriculum Vitae



Department / Area of specialization

Civil Engineering: Major in Structural Engg.

(Area of specialization: Structural Engineering, Bridge Structures, Structural Dynamics, Finite Element Analysis, Earthquake Engineering, Steel, Steel-Concrete Composite Structures, offshore and coastal structural engineering/management)

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| 1. | Name | Dr K. Baskar |
| 2. | Gender and Marital Status | Male, Married |
| 3. | Nationality and Religion | Indian, Hindu |
| 4. | Date of Age | 56 Years |
| 5. | Present Position | Professor (HAG), Dept. of Civil Engineering Coordinator, Global Academic and Research Networking Centre (GARC) w.e.f. 1.1.2026 , National Institute of Technology, Trichy, TN, India-620 015 |
| | Previous administrative positions | <ul style="list-style-type: none"> ▪ Dean (Planning and Development) 29.12.2022 - 24.12.2025 ▪ Head, Department of Civil Engineering – Oct.2017 – Oct.2019 ▪ Associate Dean (Admin, IIITS) – one year ▪ Associate Dean (P&D), NITT – 3Years |
| 6. | Address for Communications | |
| | <i>Residence Address</i> | E-Mail: |
| | Dr. K. Baskar, A4, Udhaya Apartment, 65/110 Heber Road, Beema Nagar, TRICHY – 620 001. Tamil Nadu, India. | kbaskar@nitt.edu drkbaskar@yahoo.co.in Phone: +91-431-2503161 |

6. Details of Education from UG degree onwards

| Degree | Discipline | Institution | Class/Division | Year of Passing |
|--------|--------------------|--|---|-----------------|
| B.E. | Civil & Structural | Annamalai University, Annamalai Nagar, India | First class with Distinction | 1994 |
| M.E. | Structural Engg. | CEG Guindy Anna University, Chennai, India | First class with Distinction | 1996 |
| Ph.D. | Civil Engineering | National University of Singapore, Singapore | NA | 2003 |

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| 7 | <p><u>Professional Membership</u></p> <ol style="list-style-type: none"> 1. Fellow Member (F1270695) – The Institution of Engineers (India) (F.I.E.I). 2. Fellow Member (F-534) – Indian Association of Structural Engineers (F.IAStructE) 3. Fellow Member (LF0597) - Indian Geotechnical Society (F.I.G.S.) 4. Member (LM154) – Indian Association for Structural Engineering (M.I.A.S.E.) 5. Member (LM169) – Indian Association for Computational Mechanics (M.Ind.A.C.M.) 6. Member (LM483) – Indian Society for Wind Engineering (M.I.S.W.E.) 7. Member (LM50381) – Indian Society for Technical Education (M.I.S.T.E.) 8. Member (OM-0608) – Malaysian Structural Steel Association (M.M.S.S.A) 9. Member (LF13513) – Indian Concrete Institute (M.I.C.I.) 10. Member (7587 L) – Association of Consulting Civil Engineers (India), M.ACCE |
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8. Work Experience

| Organization | Designation | From | To |
|---|--|---|---|
| Larsen & Toubro Ltd, ECC-EDRC Headquarters, Chennai, India | Design Engineer – Supervisory cadre – A | April 1996 | May 1998 |
| National University of Singapore, Singapore | Research Scholar/PhD Research student | June 1998 | Dec. 2001 |
| Det Norske Veritas Pte Ltd, Singapore | Industry/Structural Engineer | Jan 2002 | Dec 2003 |
| Perisai Petroleum Technology Bhd, Corro-Shield (M) Sdn Bhd, Malaysia | Manager, Research & Development Unit | Jan 2004 | Jan 2006 |
| University Technology Petronas, Malaysia | Adjunct Faculty | One semester | |
| Sona College of Technology, Salem, India Dept. of Civil Engineering | Professor, | Feb'06 | 15 th May 2007 |
| National Institute of Technology, Trichy – 15. Dept. of Civil Engineering | Assistant Professor Associate Professor Professor Professor (HAG) | 16.05 2007 16.05.2010 12.03.2018 02.03.2026 | 15.05.2010 11.03.2018 01.03.2026 onward |

9. Government Funded Projects

| S. No | Title | Cost in Lakh | Month of approval | Role as PI/Co- PI | Agency | Status |
|-------|--|--------------|-------------------|-------------------|--|--|
| 1 | Study on the behaviour of double-skinned profiled sheet concrete composite wall (DSCW) panel under bullet impact towards developing safety shelters for military personnel | 36,54,189/- | Jan 2024 | PI | DST-SERB CRG(CRG/20 23/005841) | Ongoing |
| 2 | Affordable Housing for Economically weaker section in all Disaster-prone areas | 18,30,000 | July 2019 | Co-PI (Mentor) | DST-TARE (DST- TARE/2019/0 002220 | Completed March 8 th 2023 |
| 3 | Analysis and Design of Horizontally Spliced Steel Girders | 7,70,000 | Dec 2015 | PI | BHEL Trichy | Completed |
| 4 | Analysis and Design of Large Size HRSG using Limit State Method for optimization and bringing out the salient features of Limit State Design for future application | 7,27,000 | Feb 2011 | PI | BHEL Trichy | Completed |

10. Patents

| Sl. No | Name of the Invention | Inventors | Patent Application No |
|--------|--|--|--|
| 1. | A Textile Reinforced Stiffened Composite Slab structure and a method for manufacturing the same. | Baskar Kaliyamoorthy & Sophia Immanuel | Ref. No. IN202541110891 (Published 28 th Nov 2025) |

| 11. | Research Publications (around 130 publications in total) |
|-----|---|
| | <p>List of Refereed Journal publications (58 journal papers)</p> <ol style="list-style-type: none"> Aparna, K., & Baskar, K. (2025). Causal Inference-Informed Explainable Selective Weighted Ensemble for predicting Ultra-high performance concrete compressive strength. <i>Knowledge Based Systems (2025), Elsevier. (Accepted)</i>. Immanuel, S, Kaliyamoorthy, B (2025). Low-Velocity Impact Response of Carbon Textile Reinforced One-way Composite Panels. <i>Journal of Building Engineering (Elsevier)</i>, vol 116 (114742), (SCIE,IF-7.4,Q1)- (Nov 2025), https://doi.org/10.1016/j.jobe.2025.114742 Immanuel, S., & Baskar, K. (2025). Low-velocity impact induced damage and dynamic response of two-way Textile Reinforced Concrete (TRC) slabs. <i>Structures,80(2025), 110164.Elsevier.</i> https://doi.org/10.1016/j.istruc.2025.110164. Aparna, K., & Baskar, K. (2025). An Interpretable automated optimized machine learning for predicting concrete compressive strength. <i>Expert Systems with Applications(2025),Elsevier,</i> 129656, v-298,Part B. https://doi.org/10.1016/j.eswa.2025.129656. Immanuel, S., & Baskar, K. (2025). Investigating the effect of textile layers on the flexural response of Textile Reinforced Concrete (TRC) panels. <i>Structures,71(2025), 1108112.Elsevier.</i> https://doi.org/10.1016/j.istruc.2024.108112. Punnappilly, S., & Baskar, K. (2024). Comparative Evaluation of Concrete constituent models in blast loaded shaped structural units. <i>Archives in Civil Engineering</i> Aparna, K., & Baskar, K. (2024). Scientometric analysis and panoramic review on life cycle assessment in the construction industry. <i>Innovative Infrastructure Solutions, 9(4), 1-25.</i> https://doi.org/10.1007/s41062-024-01402-y. Punnappilly, S., & Baskar, K. (2024). Comparative study of the influence of charge shapes on the distribution of blast pressure on a structural unit. In <i>Journal of Physics: Conference Series</i> (Vol. 2680, No. 1, p. 012030). IOP Publishing. 10.1088/1742-6596/2680/1/012030. Cyril Thomas. A, Elanhikuzhy, J. P., & Kaliyamoorthy, B. (2023). Damping characteristics of CFRP strengthened castellated beams. <i>Steel and Composite Structures, 49(6), 685.</i> https://doi.org/10.12989/scs.2023.49.6.685. Sophia Immanuel, Aniket Ojha, Baskar Kaliyamoorthy and Arun Murugesan, A state-of-art review on the mechanical performance of basalt textile reinforced concrete (BTRC), <i>The Journal of Mechanics of Materials and Structures, Vol.18 (2023), No.4, pp.593-618,</i> https://doi.org/10.2140/jomms.2023.18.593 Sreekumar Punnappilly, and K. Baskar, Parametric study to evaluate the influence of aspect ratio of cylindrical charges on blast pressures, <i>Materials Today: Proceedings, Published online,</i> https://doi.org/10.1016/j.matpr.2023.04.478, 2023 Harikrishna, T., Cyril Thomas. A. and Baskar, K., Investigation on Behaviour of Horizontally Spliced Ceiling Girders Employed in Boiler Structures, <i>Asian Journal of Civil Engineering,</i> |

<https://doi.org/10.1007/s42107-023-00636-y> (Scopus and WoS indexed), Published by Springer Nature, 2023

13. Sophia Immanuel and K. Baskar, A State-of-the-art Review on Sustainable low-cost Housing in India, Journal of Innovative Infrastructure Solutions, (2023) 8:39, <https://doi.org/10.1007/s41062-022-01010-8>, 2023
14. K. Sakthimurugan and K. Baskar, Experimental Investigation on RCC External Beam-column joints retrofitted with Basalt textile fabric under static loading, JI. Of Composite Structures, Elsevier, 268 (2021) 114001, 17th April 2021, <https://doi.org/10.1016/j.compstruct.2021.114001>
15. K. Sakthimurugan and K. Baskar, Evaluation of Efficacy of Basalt Textile Fabric on retrofitting of damaged Reinforced Concrete External Beam-Column Joints, Innovative Infrastructure Solutions, (6), 124(2021) 28th March 2021, <https://doi.org/10.1007/s41062-021-00499-9>
16. M. Arun, K. Baskar, B.S. Geethapriya, M. Jayabharathi, R. Angayarkkani, Affordable housing: Cost effective construction materials for economically weaker section, Materials Today:Proceedings(45)Scopus. <https://doi.org/10.1016/j.matpr.2020.12.265>.
17. Cyril Thomas, A. and Baskar, K., Behaviour of thin-walled castellated beams strengthened using CFRP, Structures Journal, Vol.30 (2021) 338–351. <https://doi.org/10.1016/j.istruc.2020.12.083>
18. Kanchidurai. S, P. A. Krishnan, K. Baskar, Investigation of compressive and shear strength on novel zigzag steel wire mesh embedment in small scale masonry panel, Journal of Critical Reviews Vol 7, Issue 19, 2020. (SCOPUS)
19. Kanchidurai. S, P. A. Krishnan, K. Baskar, Compressive strength estimation of mesh embedded masonry prism using empirical and neural network models, Journal of Soft Computing in Civil Engineering (SCCE), Volume 4, Issue 4, page 24-35, 2020 (PUBLONS)
20. Kanchidurai. S, P. A. Krishnan, K. Baskar. An Assessment of Brick Masonry Strengthening Practice by Special Methods. International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-3, September 2019. (SCOPUS)
21. Kanchidurai. S, P. A. Krishnan, K. Baskar, K. Saravana Raja Mohan. Out-of-Plane Behavior of Masonry Wall Strengthened Using Expanded Wire Mesh. International Journal of Engineering &Technology, 7 (3.12) (2018) 554-557.
22. Kanchidurai, S., P. A. Krishnan, K. Baskar, K. Saravana Raja Mohan, (2019), “Strength Characteristics of Novel Mesh Embedment Technique for New Brick Construction with Least Expensive Material”, Engineering Structures, Volume 178, pp484-492, 2019.
23. Umamaheswari V., S. Kanchidurai, P.A.Krishnan and K. Baskar (2018), “Strengthening of Brick Masonry with welded wire mesh”, International Journal of Engineering & Technology, 7(3.12) (2018) 133-136
24. Cyril Thomas, A., and Baskar, K., “Strengthening of thin-webbed castellated beams using CFRP”. International Journal for Computational Methods in Engineering Science and Mechanics, <https://doi.org/10.1080/15502287.2018.1534153> , 2018
25. A, Cyril Thomas and K, Baskar, "Testing and Evaluation of Bond Surface Profile Influencing the CFRP Strengthening of Steel Members", Journal of Testing and Evaluation, ASTM International, ISSN 0090-3973, 2018
26. P.V. Premalatha, S. Senthil Kumar and K. Baskar (2017), “Influence of change in pile diameter at various locations of a pile group in a Berthing Structure”, Indian Journal of Geo-Marine Sciences (IJMS), Vol. 46(06), pp.1198-1209, June 2017
27. Senthil Kumar. K, Baskar. K. (2017), “Effect of Temperature and Thermal shock on Concrete Containing Hazardous Electronic Waste”, Journal of Hazardous, Toxic, and Radioactive Waste, American Society of Civil Engineers (ASCE), [https://doi:10.1061/\(ASCE\) HZ.2153-5515.0000387](https://doi:10.1061/(ASCE) HZ.2153-5515.0000387)
28. Aditi Pingle and K. Baskar, “Non-linear Behavior of Steel Frame with Aluminium Shear-link”, In Press (Accepted for publication), Ref. No. 320(10.1)/2017/JoSE, Journal of Structural Engineering (JoSE), CSIR-SERC, India,

29. Senthil Kumar, K., Premalatha, P. V., and Baskar, K., "Evaluation of Transport Properties of Concrete Made With E-Waste Plastic," *Journal of Testing and Evaluation*, ASTM International, USA, Vol. 45, No. 5, pp. 1–5, doi:10.1520/JTE20160008. ISSN 0090-3973 , 2017
30. Senthil Kumar, K., Gandhimathi, R., and Baskar, K., "Assessment of Heavy Metals in Leachate of Concrete Made With E-Waste Plastic," *Advances in Civil Engineering Materials*, ASTM International, Vol. 5, No. 1, pp. 256–262, <http://dx.doi.org/10.1520/ACEM20160003> . ISSN 2165-3984, 2016
31. K. Senthil Kumar, Premalatha, P.V, Baskar, K, Sankaran Pillai, G. and Shahul Hammed, P., "Assessment of Radioactivity in Concrete made using E-waste Plastic", In Press, *Journal of Testing and Evaluation*, ASTM International, USA, ISSN 0090-3973
32. Kaliyavaradhan Senthil Kumar and Kaliyamoorthy Baskar, "Recycling of E-Plastic Waste as a Construction Material in Developing Countries", *Journal of Material Cycles and Waste Management*, Springer Publications, Vol.17, pp718–724, DOI 10.1007/s10163-014-0303-5, 2015
33. Kaliyavaradhan Senthil Kumar and Kaliyamoorthy Baskar, "Shear Strength of Concrete with E-plastic, *Proceedings of Institution of Civil Engineers – Construction Materials*, Vol. 168, Issue CM2, Pages 53–56, <http://dx.doi.org/10.1680/coma.14.00044> (SJR – 0.36), April 2015
34. K. Senthil Kumar and K. Baskar, "Development of Ecofriendly Concrete Incorporating Recycled High-Impact Polystyrene from Hazardous Electronic Waste", *Journal of Hazardous, Toxic, and Radioactive Waste*, DOI: 10.1061/(ASCE)HZ.2153-5515.0000265, American Society of Civil Engineers., ISSN2153-5493/04014042(11), 2014
35. Senthil Kumar, K. and Baskar, K., "Response Surfaces for Fresh and Hardened Properties of Concrete with E-Plastic Waste", *International Journal of Waste management*. Hindawi Publishing Corporation, Volume 2014, Article ID 517219, 14 pages, <http://dx.doi.org/10.1155/2014/517219>, 2014
36. Senthil Kumar, K. and Baskar, K., "Preliminary study on concrete with mixed electronic plastic waste", *The International Reviewer*, pp. 1-4, ISSN 2395-1575, June 2014.
37. Chithira, K. and Baskar, K., "Experimental Investigation on Circular CFT columns with and without shear connectors", *International Journal of Steel and Composite Structures*, Techno-press Publications, Vol. 16, No. 1, 99-116, 2014.
38. Suresh Kannan, G., Premalatha, P.V. and Baskar, K., "Behaviour of Composite Deck Slab made using steel sheets with perforated stiffeners", *The Bridge and Structural Engineer*, An International Journal, IABSE, Vol.44., No.3., pp137-147, Sep.2014
39. Harikrishna, T., Penchal Reddy, M and Baskar, K., "Static and Dynamic Analysis of Boiler Supporting Structures Designed Using Concrete Filled Square Tubular Column and Comparison with Structural Steel Column", *International Journal of Science and Research*, ISSN 2319-7064, Vol.3, Issue.8, pp1254-1259, August 2014
40. Radhika, K.S. and Baskar, K., "Bond stress characteristics on circular concrete filled steel tubular columns using mineral admixture Silica fume", *International Journal of Earth Science and Engineering*, ISSN0974-5904, Vol.6., No.1, pp170-177, Feb.2013.
41. Madhavi, N., Baskar, K., Natarajan, C. and Rajaraman, A.R., "Role of central and non-central nodal damage in skewed grid bridges", *International Journal of Earth Sciences and Engineering*, Volume 6, Issue 4, Pages 612-616, 2013
42. Madhavi, N., Baskar, K., Natarajan, C. and Rajaraman, A.R., "Influence of Skew Angle in the Design of Grids", *Journal of Indian Highways*, pp57-65, May 2013.
43. Resmi, G. and Baskar, K., "Damage Assessment of Laterally Restrained Steel Beams using Dynamic Response", *Journal of Applied Research*, Vol.1, Issue.1, pp.30-36, ISSN:2321-4090. May 2013.
44. Dhanya, J. and Baskar, K., "Behavioral Analysis of Steel Girders in Skew Bridges", *The Bridge & Structural Engineer*, Journal of the Ing-IABSE, Vol.43, No.2, pp51-74, June 2013.
45. Radhika, K.S. and Baskar, K., "Bond stress characteristics on circular concrete filled steel

tubular columns using mineral admixture metakaoline”, *International Journal of Civil and Structural Engineering*, Vol.3, No.1, pp1-8, ISSN 0976-4399, 2012.

46. Chithira, K. and Baskar, K., "Cross sectional Analysis of Circular Concrete Filled Steel Tube" *International Journal of Earth Science and Engineering*, ISSN0974-5904, Vol.5, No.4, pp792-801, Aug.2012.
47. Chithira, K. and Baskar, K., "Experimental and Numerical Investigation on Circular CFT Columns under Eccentric Load Condition with and without Shear Connectors". *International Journal of Earth Science and Engineering*, ISSN0974-5904, Vol.5, No.1, pp169-179, Feb.2012.
48. K. Baskar¹, R. Anandapadmanabhan², M. Anand³ and V. Dwarakesh⁴ “Tensile Capacity of Corroded Steel Section Strengthened using Fiber Composite Wrap”, *Journal of Construction Engineering, Technology and Management*, Vol.2, Issue 1, pp14-25, April 2012.
49. Sathiyaseelan, S. and Baskar, K., “Numerical study on thin plates under the combined action of shear and tensile stresses”, *International of Journal Structural Engineering and Mechanics*, Techno-press Korea, Vol.42, No.6, pp867-882, June25, 2012. . SCI Journal, Thompson and Reuters Impact Factor 0.766
50. Radhika, K.S. and Baskar, K., “Influence of Mineral admixture on Compressive Strength of Concrete”, *Journal of Construction Engineering, Technology and Management*, Vol.2., Issue 3, ISSN 2249-4723, Nov. 2012.
51. Madhavi, N and Baskar. K., “Numerical Study on Variation in Support Reaction of Skewed Bridges”, *Journal of Structural Engineering*, SERC, Vol.37, No.6, pp397-402, February-March, 2011.
52. Baskar, K., “Influence of Flange Stiffness on Ductility Behaviour of Plate Girder”, *International Journal of Civil, Structural, environmental and Infrastructural Engineering Research and Development, IJCSEIERD*. Transstellar Journal Publications, Vol.1, Issue 1, pp1-15, Aug.2011.
53. Chithira, K. and Baskar, K., “Non-linear Behaviour of Thin-walled Hollow Circular Steel Tubes”, *International Journal of Civil, Structural, environmental and Infrastructural Engineering Research and Development, IJCSEIERD*. Transstellar Journal Publications, Vol.1, Issue 1, pp86-116, Aug.2011.
54. Baskar, K. and Rahmathunnissa, M., “Non-Linear Behaviour of Semi Rigid Road Safety Barrier Predicted through a Simplified Finite Element Approach,” *Journal of Bridge and Structural Engineer-International Association for Bridge and Structural Engineers-Indian National group (IABSE_ING)*, Vol.39, No.3, pp57-72, September 2009. SCI Journal.
55. Shanmugam, N.E and Baskar, K. “Ultimate load behavior of webs in steel-concrete composite plate girders.” *Jl of Institution of Engineers Singapore, Part-A Civil & Structural Engineering*, Vol.1, No.2, pp123-140, May 2008.
56. Shanmugam, N E and Baskar, K. “Ultimate strength of steel-concrete composite plate girders.” *International Journal of Steel and Composite Structures*, Vol.6, No 1, pp1-14, Feb.2006. . SCI Journal, Thompson and Reuters Impact Factor 0.933
57. Baskar, K and Shanmugam, N E. “Steel-concrete Composite Plate girders Subject to Combined shear and Bending.” *International Journal of Constructional Steel Research*, Volume 59, pp.531-557, 2003.
58. Shanmugam, N E and Baskar, K. “Steel-concrete Composite Plate Girders Subject to Shear Loading.” *Journal of Structural Engineering*, ASCE, Volume 129, Issue 9, pp. 1230-1242, 2003.
59. Baskar, K, Shanmugam, N E, and Thevendran, V. "Finite element analysis of steel-concrete composite plate girder." *Journal of Structural Engineering*, ASCE, Volume 128, Issue 9, pp.1158-1168, 2002

List of papers presented in Refereed International Conferences (50 Nos)

1. Meet Pravinbhai Patel, Varunkumar P and Baskar K, (Dec 2024) Dynamic Response of Thick Aluminum Plates to High Velocity Projectile Impacts at 14th Structural Engineering Convention (SEC-2024) at NIT Tiruchirappalli.
2. Varunkumar P, Pranjul Dixit Singh and Baskar K, (Dec 2024) A Simplified Modelling Approach to Investigate the stability of PEB Rafter with and without Compression flange restraint at 14th Structural Engineering Convention (SEC-2024) at NIT Tiruchirappalli.pp-25
3. Abhijeet Sunil Chakrey, Varunkumar P and Baskar K (Dec 2024), Experimental and Numerical Analysis of Filler Slab at 14th Structural Engineering Convention (SEC-2024) at NIT Tiruchirappalli.pp-31.
4. Sophia Immanuel, Adesh Pratap Singh and Baskar K, (Dec 2024) Assessing the Impact Resilience of Carbon Textile Reinforced Concrete (CTRC) Panels at 14th Structural Engineering Convention (SEC-2024) at NIT Tiruchirappalli.pp-189
5. Kamarthi Aparna and Baskar K (Dec 2024), Identification of cracks in Reinforced Concrete Structures Based on weighted Ensemble Learning Approach for Structural Safety at 14th Structural Engineering Convention (SEC-2024) at NIT Tiruchirappalli.pp-6
6. Sreekumar P and Baskar K (Dec 2024), Numerical Study on Blast Load-Structure Interaction in Varied Structural Shapes at 14th Structural Engineering Convention (SEC-2024) at NIT Tiruchirappalli.pp-12
7. Athul D, Sreekumar P and Baskar K (Dec 2024), Influence of Varying Compressive Strength on the displacement response of an Apsidal Shaped RC Unit under Blast loading at 14th Structural Engineering Convention (SEC-2024) at NIT Tiruchirappalli.pp-16
8. Sreekumar P and Baskar K (2023), Comparative study of the influence of charge shapes on the distribution of blast pressure on a structural unit, at 12th Global Conference on Material Science and Engineering (CMSE 2023), pp 012-030
9. Varun Kumar P and K. Baskar (December 2023), Impact of Residual Stress on Web Tapered Welded I-Beam” in 13th Structural Engineering Convention (SEC 2023), VNIT Nagpur.
10. Sophia Immanuel and K. Baskar (September 2024), Flexural Response of Carbon Textile Reinforced Concrete (CTRC) Panels: A Numerical Investigation at 10th International Conference on CONcrete under SEvere Conditions (CONSEC24) – Environment and Loading 2024,25-27 September, IIT Madras Research Park, Chennai, India. Proceedings of CONSEC2024, Pages 1109-1113.
11. Sophia Immanuel and K. Baskar (September 2023), Flexural Response of Carbon Textile Reinforced Concrete (CTRC) Panels in IABSE Congress 2023 proceedings page no 1547-1553.
12. Cyril Thomas, A., Aarthy, E., & Baskar, K. (2020, March). Buckling Behaviour of Inelastic Thin-Webbed Castellated Beams. In *Indian Structural Steel Conference* (pp. 423-438). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-19-9390-9_34.
13. Kanchidurai, S., Krishanan, P.A., Baskar, K., Saravana Raja Mohan, K., A review of inducing compressive residual stress - Shot peening; On structural metal and welded connection”, International Conference on Civil Engineering and Infrastructural Issues in Emerging Economies 2017, ICCIEE 2017; School of Civil Engineering, SASTRA University Tirumalaisamudram, Thanjavur; India; 17 March 2017 through 18 March 2017; Code 129662, Volume 80, Issue 1, 9 August 2017, Article number 012033
14. Narsiram Gurjar and K. Baskar, (2017) Penetration Based Design of Double Skinned Composite Wall Panel under Bullet Impact, The 2017 World Congress on Advances in Structural Engineering and Mechanics (ASEM17), pp157, Kitex II, Ilson (Seoul), South Korea, 28th Augusts to 1st September 2017
15. Cyril Thomas, A., and Baskar, K., (2016), Assessment of Load Carrying Capacity of Thin-webbed Castellated Beams, Structural Engineering Convention 2016 (SEC 2016) organized by CSIR-SERC, IIT Madras and Anna University, Chennai in CSIR-SERC, Chennai, India, pp 322

16. K. Baskar, E. Aarthy and A. Cyril Thomas, (2016), Buckling Behaviour of In-elastic Castellated Beams, 6th International conference on Computational Mechanics 2016 (ICCMS 2016) organized by IIT Bombay in IIT Bombay, pp 882 – 885, 27th June – 1st July, 2016.
17. K Baskar, and Sadananda, H.I., (2016), Non-linear Analysis of Laterally Restrained Beams with Sinusoidal Corrugated Web, 6th International conference on Computational Mechanics 2016 (ICCMS 2016) organized by IIT Bombay in IIT Bombay, pp 886 – 889, 27th June – 1st July, 2016.
18. K Baskar, and Sawant, R., (2016), Non-linear Behaviour of Girders with Horizontal Web Splice, 6th International conference on Computational Mechanics 2016 (ICCMS 2016) organized by IIT Bombay in IIT Bombay, pp 890 – 893, 27th June – 1st July, 2016.
19. K. Baskar, R. Shobana and A Cyril Thomas, (2016), Non-linear Analysis of Castellated Beams, 6th International conference on Computational Mechanics 2016 (ICCMS 2016) organized by IIT Bombay in IIT Bombay, pp 894 – 897, 27th June – 1st July, 2016.
20. Baskar, K and Velmurugan, M, (2015), Experimental Investigation on Thin-walled Circular CFT Column made using Cold Rolled Steel Plates, 11th International Conference on Advances in Steel and Concrete Composite Structures. Tsinghua University, Beijing, china, December 3-5, 2015
21. T. Harikrishna and K. Baskar, (2014), Comparative Study on Response of Boiler Supporting Structure Designed Using Structural Steel I-Columns and Concrete Filled Square Steel Tubular Columns, Structural Engineering Convention 2014 (SEC 2014) organized by IIT – Delhi in IIT Delhi, India, pp – 2103 – 2115 (Advances in Structural Engineering – A special edition of springer publication), December 22nd - 24th, 2014.
22. Honey Verma and K. Baskar, (2014), Numerical Simulation of Welding and its Influence on Ultimate Strength of Welded Plate Girder, Structural Engineering Convention 2014 (SEC 2014) organized by IIT – Delhi in IIT Delhi, India, December 22nd - 24th, 2014.
23. Senthil Kumar, K. and Baskar, K., (2014) Eco-Friendly Concrete: Utilization of E-waste plastic (HIPS) as Coarse aggregate in Sustainable construction, National Conference on Advancement in Materials Science (AMS2014), pp 86, September 26th-27th, 2014. (Poster)
24. Senthil Kumar, K and Baskar, K (2014) E-waste in construction industry – A review. International Conference on Ingenious Technologies and Sustainable Developments in Civil Engineering (ICICE 2014), Noorul Islam Univeristy, Tamil Nadu, India, pp 374-380, October 8, 2014.
25. Senthil Kumar, K. and Baskar, K., (2014) Shear Performance of E-waste plastic (HIPS) concrete, National Conference on Advancement in Materials Science (AMS2014), Coimbatore Institute of Technology, Coimbatore. pp 17, September 26th-27th, 2014.
26. Senthilkumar, K. and Baskar, K., “Compressive Strength Behavior of Concrete made Using E-Plastic Waste”, International Conference on Advanced Materials for Energy Efficient Buildings, organized by CSIR-CBRI (Roorkee), New Delhi, India, pp 76-77, Feb.13-15, 2013
27. Senthil Kumar, K. and Baskar, K., (2013) Use of Plastic Waste as Aggregate in Concrete: A Review. Third National Conference – KEYNOTE’2013, CARE School of Engineering, Trichy, 7th & 8th February 2013 (CD). Received the Best Paper Award.
28. Senthil Kumar, K. and Baskar, K., (2013) Preliminary study on concrete with mixed electronic plastic waste. National Conference –Indian Congress on Curbing E-wastes (ICCE2013), Department of civil Engineering, Acharya institute of Technology, Bangalore, pp 20, November 9th, 2013.
29. K. Baskar and K.S.Radhika, “Push-out Test of Concrete Filled Steel Tubular Columns using Mineral Admixtures Metakaoline”, International Conference on Emerging Technological Trends in Advanced Engineering Research, ICETT 2012, Baseliros Mathews II College of Engineering, Kollam, Kerala, India, February 20-21, 2012
30. K. Baskar and K.S.Radhika, “Bond Stress Characteristics on Circular Concrete Filled Steel Tubular Columns incorporating Metakaoline”, International Conference on Advances in

Engineering and Technology”, E.G.S.Pillay Engineering College, Nagapattinam, March 28th and 29th 2012.

31. Sathiyaseelan Subramanian and Baskar Kaliyamoorthy, “Buckling Behavior of Thin Plates under Combined in-Plane Shear and Tensile Stresses”. 6th International Conference on Thin-walled Structures, ICTWS’2011, Sep.5-7, Timisoara, Romania, 2011.
32. Chithira, K. and Baskar, K., “Investigation on the Behaviour of Circular CFT Columns with and Without Shear Connectors”. 6th International Conference on Thin-walled Structures, ICTWS’2011, Sep.5-7, Timisoara, Romania, 2011.
33. Baskar Kaliyamoorthy and Sureshkannan Ganeshan , “Behaviour of Composite Deck Slab Made using Steel Sheets with Perforated Stiffeners”. 6th International Conference on Thin-walled Structures, ICTWS’2011, Sep.5-7, Timisoara, Romania, 2011.
34. Baskar.K and Rahmathunnisa.M., “Non-Linear Behaviour of Semi Rigid Road Safety Barrier”. 6th International Conference on Thin-walled Structures, ICTWS’2011, Sep.5-7, Timisoara, Romania, 2011.
35. Chandrasekaran, S., Baskar, K. and Mohammad Hashim, “Experimental Studies on Dynamic Response Behaviour of Multi-legged Articulated Tower” Proceedings of the ASME 2010 29th International Conference on Ocean, Offshore and Arctic Engineering, OMAE2010, June 6-11, 2010, Shanghai, China
36. Baskar, K., Anandapadmanabhan, R., Anand, M. and Dwarakesh, V. “Experimental Study on Corroded Steel Sections Strengthened using Fiber Composite Wrap,” International Conference in Ocean Engineering, ICOE’2009, OEC, IIT(M), Chennai, 1-5th Feb 2009
37. Sakthivel, V. and Baskar, K., Finite Element Analysis of Axially Loaded Steel Tubular Columns, International Conference in Ocean Engineering, ICOE’2009, OEC, IIT(M), Chennai, 1-5th Feb 2009
38. Chithira, K and Baskar, K., A Review on Bond/Shear Transfer mechanism in CFT Columns, Proceedings of the International conference on “Innovations in Building Materials, Structural Designs and Construction Practices (IBMSDCP-08), Bannari Amman Institute of Technology, pp242, 15-17 May 2008
39. Ramesh Kumar, P and Baskar, K., Seismic Evaluation of R.C. Framed Building Before and After the Retrofitting, Proceedings of the International conference on “Innovations in Building Materials, Structural Designs and Construction Practices (IBMSDCP-08), Bannari Amman Institute of Technology, pp255, 15-17 May 2008
40. Baskar, K and Sasikala, M., Numerical Simulation of Plate girders Designed Using Tension Field Theory, Proceedings of the International conference on “Innovations in Building Materials, Structural Designs and Construction Practices (IBMSDCP-08), Bannari Amman Institute of Technology, pp282, 15-17 May 2008
41. Baskar, K and Sasikala, M. “Influence of Flange Stiffness on Ductility Behavior of Plate Girders” Paper submitted and accepted for the forthcoming conference “Fifth International Conference on Thin-walled Structures, ICTWS’2008,” Brisbane, Australia.
42. Baskar, K. and Leong, K. H. “Pressure containment capabilities of composite overwrap for pipelines and risers.” Fourth International Conference on Composite Materials and Structures for Offshore Operations, CMOO-4, organized by University of Houston, Houston, Tx, USA, 4-6th October 2005.
43. Tengku Daud Shaifuddin, N’dran and Baskar, K. “An Engineered and Tested Solution in Riser-pipe/Pipeline Repair.” 4th International Materials Technology Conference & Exhibition, Organized by Institution of Materials Malaysia, Kuala Lumpur, Malaysia, 23-25th March 2004.
44. Shanmugam, N E and Baskar, K. “Experimental studies on steel-concrete composite plate girders.” Proceedings of the International Conference on Advances in Structures-steel, concrete, composite and aluminum, ASSCCA’03, Sydney, Australia, June 23-25, 2003
45. Shanmugam, N E and Baskar, K. "Behavior of steel-concrete composite plate girders." Proceedings of the SSRC Annual Stability Conference, An International Conference arranged by

Structural Stability Research Council, Seattle, Washington, USA, April 25-27, pp.425-440, 2002

46. Shanmugam N E and Baskar, K. "Design for web buckling in steel-concrete composite plate girders." Proceedings of the Second International Conference on Structural Stability and Dynamics, Singapore, December 16-18, pp.351-356, 2002
47. Baskar, K, Shanmugam, N E and Thevendran, V. "Steel-concrete composite plate girder." Composite and Hybrid Structures, Proc. of 6th ASCCS Conference, Los Angeles, USA, Mar., Vol. 2, 655-662, 2000
48. Baskar, K, Shanmugam, N E and Thevendran, V. "Modeling of steel-concrete composite plate girder." SVUlink, NUS quarterly magazine published by Super Computing and Visualization Unit (SVU), Vol.2, Issue 2., Page 11, September, 2000
49. Baskar, K, Shanmugam, N E and Thevendran, V. "Finite element modeling of steel-concrete composite plate girder." Computational Mechanics for the Next Millennium, Proceedings of APCOM '99, Fourth Asia-Pacific Conference on Computational Mechanics, Singapore, Vol. 1, 105-110, 1999.
50. Nagamani, K and Baskar, K. "Non-linear dynamic response of two hinged articulated tower", International Conference in Ocean Engineering, COE'96, IIT, Chennai, India, 17-20, December, pp.119-123, 1996

List of papers presented in Indian Conferences (22 Nos)

1. Meet Pravinbhai Patel, Varunkumar P & Baskar K. (2025). "Performance of Double Skinned Steel Concrete Composite Panels under impact loading." At 14th International Symposium on Plasticity and Impact Mechanics (IMPLAST-2025), 12-16th October at IIT Roorkee.
2. Sophia Immanuel, Adesh P.S & Baskar, K. (2024). Assessing the Impact Resilience of Carbon Textile Reinforced Concrete (CTRC) Panels: A Numerical Investigation at 14th Structural Engineering Convention (SEC 2024), NIT Tiruchirappalli.
3. Kamarthi Aparna & Baskar, K. (2024). Identification of Cracks in Reinforced Concrete Structures based on Weighted Ensemble Learning Approach for Structural Safety at 14th Structural Engineering Convention (SEC 2024), NIT Tiruchirappalli.
4. Athul, D., Punnappilly, S., & Baskar, K. (2024). Influence of varying compressive strength on the displacement response of an apsidal shaped RC unit under blast loading at 14th Structural Engineering Convention (SEC 2024), NIT Tiruchirappalli.
5. Punnappilly, S., & Baskar, K. (2024). Numerical Study on blast load-structure interaction in varied structural shapes at 14th Structural Engineering Convention (SEC 2024), NIT Tiruchirappalli.
6. Varun Kumar P and K. Baskar (December 2023), Impact of Residual Stress on Web Tapered Welded I-Beam" in 13th Structural Engineering Convention (SEC 2023), VNIT Nagpur.
7. Punnappilly, S., & Baskar, K. (2024). Structural Response of Shaped Concrete Units subjected to Blast Loading -A Parametric in 13th Structural Engineering Convention (SEC 2023), VNIT Nagpur.
8. Sophia Immanuel and K. Baskar (December 2023), Comparative Flexural Response of CTRC and BTRC Panels in 13th Structural Engineering Convention (SEC 2023), VNIT Nagpur.
9. Sophia Immanuel and K. Baskar (September 2023), Flexural Response of Carbon Textile Reinforced Concrete (CTRC) Panels in IABSE Congress 2023, New Delhi.
10. Rahmaththunissa and Baskar. K., Finite Element Analysis of Road Safety Barrier, National level conference on Failure Studies and Remedial Measures., KSR College of Engineering, 19th & 20th Dec.2008, pp114-123
11. Chithira. K., and Baskar, K., Simulation of slip mechanism between steel and concrete in composite sections, National level conference on Failure Studies and Remedial Measures., KSR College of Engineering, 19th & 20th Dec.2008, pp136-144
12. Rameshkumar, P. and Baskar, K., "Structural Evaluation of RC framed building under various

seismic zones,” National level conference on Failure Studies and Remedial Measures., KSR College of Engineering, 19th & 20th Dec.2008, pp124-135

13. K. Rajendra Prasad and K. Baskar, “Analysis and comparative study of Natural Draft Cooling Tower shell for its different segmental heights with respect to its full-length shell”, 2-Day National Conference on “Recent Trends in Structural Engineering”, KRPRTE, Hyderabad, 6th & 7th January, 2012.
14. Somasundaram, S. and Baskar, K., “Study on Seismic Behaviour of One-Way Asymmetrical Buildings and Construction of Response Spectra”, Proceedings of the National Conference on Contemporary Civil Engineering Research and Practices – CCERP2012, April 20-21 at MIT Manipal. Pp.108
15. Merin Sebastian and Baskar, K., “Nonlinear Behaviour of Steel Frame with Aluminum Shear Panel”, Proceedings of the National Conference on Contemporary Civil Engineering Research and Practices – CCERP2012, April 20-21 at MIT Manipal. Pp.100
16. Senthilkumar, K. and Baskar, K., “Use of Plastic Waste as Aggregate in Concrete: A Review”, Third National Conference – KEYNOTE’2013, CARE School of Engineering, Trichy, 7th & 8th February 2013.
17. Jeyashree, T.M. and Baskar, K., “A study on Reinforced Concrete Structures under Carbonation Attack”, Third National Conference – KEYNOTE’2013, CARE School of Engineering, Trichy, 7th & 8th February 2013.
18. Dhanya, J and Baskar, K., “Displacement and Distribution of Moments in Steel Skew Highway Bridge Girders”, Third National Conference – KEYNOTE’2013, CARE School of Engineering, Trichy, 7th & 8th February 2013.
19. Resmi, G. and Baskar, K. “Multi criteria Approach of Damage Assessment in Laterally Restrained Steel beams”, Third National Conference – KEYNOTE’2013, CARE School of Engineering, Trichy, 7th & 8th February 2013.
20. Muthukumar, S. and Baskar, K., “Ultimate Load Behavior of Plate Girder Supported at Different Levels”, Third National Conference – KEYNOTE’2013, CARE School of Engineering, Trichy, 7th & 8th February 2013.
21. Siddhartha, K. and K. Baskar, “Analysis of Steel-Concrete Composite Beam in Flexure”, Conference Proceedings, ISTE Sponsored National Conference on Latest Advancement in Civil Engineering, RMK college of Engineering, Chennai, 4th April 2013
22. Senthil Kumar, K. and Baskar, K., “Preliminary study on concrete with mixed electronic plastic waste”, National Conference –Indian Congress on Curbing E-wastes, Department of civil Engineering, Acharya institute of Technology, Bangalore, pp 20, November 9th, 2013

List of special/invited lectures/Seminars (50 Nos)

1. Invited Lecture on “Composite Beam Design: Flexural behavior and walk-through of an example problem.” as a short-term training programme on Design and construction of steel concrete composite structures organized by INSDAG(Online), 15th -26th September 2025.
2. Inaugural Address on “Recent Trends in Civil Engineering Research”, at First International Conference on Emerging Research Trends in Civil Engineering, organized by Sri Sairam Engineering College, Chennai, 4th & 5th August 2022
3. Invited Lecture on “Case study of failure/collapse of precast pretensioned girder bridge including QC&QA at site, Cause of Failures, Risk Assessment and Safety Measures”, Organized by Indian Academy of Highway Engineering in Association with NHAI, Ministry of Road Transport and Highways, Government of India, at Surat, 13-15 June 2022, Gujarat, India
4. Invited Lecture on “Condition Assessment and Strengthening of Structures: Challenges and opportunities”, Five Days STTP organized by Mepco Schlenk Engineering College, Sivakasi, April 26-30, 2022
5. Invited Lecture on “Prof. T. S. Venkataramanan Memorial Endowment Lecture on Introduction to Analysis, Design, Fabrication and Erection of Offshore Structures”, organized by Alumni

Association of College of Engineering Guindy, Anna University, Chennai-25, 28th December 2021

6. Invited Lecture on “Case study of failure/collapse of precast pretensioned girder bridge including QC&QA at site, Cause of Failures, Risk Assessment and Safety Measures”, Organized by Indian Academy of Highway Engineering in Association with NHAI, Ministry of Road Transport and Highways, Government of India, at Madurai, 29th Nov.-1st Dec.2021, TN, India
7. Special Lecture on “Reinforcing Steel – Properties and its Importance”, organized by Amman Try Steels Pvt Ltd, Trichy, 28th November2021
8. Special Lecture on “Design Cold Formed steel Axially Loaded Compression Members” webinar organized by CIT Coimbatore, 6th November 2020
9. Invited Lecture on “Analysis and Design of Steel-Concrete Composite Beams”, Webinar organized by PSG College of Technology, Peelamedu, Coimbatore, 29.08.2020
10. Invited Lecture on “Recent Developments in Steel Structural Systems”, Webinar organized by Coimbatore Institute of Technology (CIT), Coimbatore, 24.06.2020
11. Invited Lecture on “Recent Advances in Steel Structures”, Moments’19 organized by Civil Engineering Association of NIT Trichy, 20th October 2019
12. Keynote Address in the National Conference on “Innovative Trends and Advances in Civil Engineering”, Kings College of Engineering, Punalkulam, Thanjavur, 16.03.2019
13. Invited Lecture on “Effective Utilization of Electronic Plastic Waste as a Partial Replacement for Coarse Aggregate in Concrete”. One-day workshop on utilization of E-waste in Construction, Dr.N.G.P. Inst. of Tech., Coimbatore, 4th January 2019
14. Invited Lecture on “Design of Compression Members focusing on Battened and laced columns, column bases”, FDP Program, Sethu Institute of Technology, Kariappatti, Madurai, 16.11.2017
15. Special lecture on “Affordable Homes”, Institution of Engineers Trichy Chapter, BHEL Campus, On World Habitat Day, 02.10.2017
16. Invited Lecture on “Design of Laterally Restrained and un-restrained Steel Beams as per IS800-2007”, FDP Program, PSNA College of Engineering and Technology, Dindigul, 22.09.2017
17. Special Lecture on “Role of Civil Engineers and Opportunities”, Shanmuganathan Engineering College, Pudukkottai, 01.06.2017
18. CEA Inauguration address on “Developments in Steel Construction”, Shanmuganathan Engineering College, Pudukkottai, 2nd September, 2016
19. Inauguration and invited lecture on “Modern Trends in Steel Structures”, Annai College of Engineering, Kumabakonam, 22nd September 2015.
20. Inauguration and invited lecture on “Opportunities in Civil Engineering”, Ponnaiyah Ramajam College of Engineering and Technology, Tanjore, 4th September 2015.
21. Inaugural and invited lecture on “IS code provisions on Precast Construction”, One day workshop on Pre-stressed Concrete Structures” organized by CARE School of Engineering, Trichy-9, 4th February 2015.
22. Keynote Speech on “Comparative Study on Response of Boiler Supporting Structure Designed Using Structural Steel I-Columns and Concrete Filled Square Steel Tubular Columns”, at Structural Engineering Convention 2014(SEC2014), Indian Institute of Technology Delhi, 22nd December 2014.
23. Invited lecture on “Design of Pre-stressed Concrete Cylindrical Tanks and Pipes”, One day workshop on Pre-stressed Concrete Structures” organized by CARE School of Engineering, Trichy-9, 20th august 2014.
24. Inaugural address cum invited lecture “Opportunities in Civil Engineering”, Inaugural function of Civil Engineering Association at Shanmuganathan Engineering College, Arasampatti, Pudukkottai District, 9th August, 2014.
25. Inaugural address cum key note speech on “Durability, assessment and repairing of RCC

structures”, ISTE-SRM sponsored Faculty Development Program at Paavai Engineering College, Namakkal, 14th July 2014.

26. Invited Lecture on “ANALYSIS AND DESIGN OF PLATE GIRDER According to IS800:2007”, Faculty Development Program at Coimbatore Institute of Technology, 09th November 2013
27. Invited Lecture on “DESIGN OF BEAMS According to IS800:2007”, Faculty Development Program at Coimbatore Institute of Technology, 09th November 2013
28. Invited Lecture on “IS Code Provisions and Seismic Analysis of Precast Concrete Construction”, AICTE Sponsored One Day Workshop on Innovative Construction using Prefabricated Elements”, CARE School of Engineering, Trichy, 9th October 2013.
29. Guest Lecture on “Introduction to LSD Method for Steel Structures”, Two Day Workshop on Principles of Steel Structural Design Using LSD, Oxford Engineering College, 15th & 16th February 2013
30. Lecture on Offshore Structures, NSK college, Nagerkoil, 2012
31. Lecture on steel Structures, PSR College of Engineering Sivakasi, 2012
32. Guest lecture on “Introduction to Finite Element Methods”, Two Day Workshop on Finite Element Analysis using Ansys, Oxford Engineering College, 2&3rd March 2012.
33. Special seminar on “Introduction of Steel Structures in Offshore construction”, Civil Engineering Association, National Institute of Technology, Trichy, 2012
34. Invited lecture on “Revised Code Provisions and Design of Steel Girders”, Faculty Development Programme organized by KPR College of Engineering, 26.12.2011, Kovai, TN, India
35. Special Lecture on “Modern Construction using Steel-concrete Composite Structural elements”, The Institution of Engineers (India), Tiruchirappalli Local Centre, Tiruchirappalli – 620 014, 26th July, 2011
36. Invited lecture on “Design of Plate Girders and Gantry Girders”, Faculty Development Programme organized by Anna University, Chennai, 28th Nov. to 3rd Dec.2011, India
37. Invited Lecture on “Design of Composite Beams and Shear Connectors”, Workshop of Steel-concrete composite structures, Anna University, Chennai, 22nd March, 2011
38. Seminar talk on “Seismic Design of Structures”, presented at Department of Civil Engineering, M.I.E.T. Engineering College, Tiruchirappalli, Tamil Nadu, India. 2nd March 2011.
39. Invited Lecture on “Fundamentals of Seismic Resistant Design”, Workshop on Seismic Resistant Design organized by Department of Civil Engineering, Melmaruvathur Athi Parasakthi Engineering College, Melmaruvathur, Tamil Nadu, India. 28th January 2010.
40. Guest Lecture on “Advances in Structural Engineering – An Insight in to Offshore Engineering”, Presented at Indian Engineering College, Vadakkankulam, Tamil Nadu, India, 1st October 2009.
41. Special Lecture on “Earthquake Engineering and Construction Practices” at Periyar Maniammai University, Vallam, Tanjore, Tamil Nadu, India, 2nd September 2009
42. Invited lecture on “Design and construction of seismic resistant structures”, Two day training program conducted by State Bank of India, Tiruchirappalli, August 25-26, 2008.
43. Special lecture on “Steel structures in offshore construction”, The Institution of Engineers (India), Tiruchirappalli Local Centre, Tiruchirappalli – 620 014, 5th August 2008
44. Invited lecture on “Seismic evaluation of existing multi-storeyed building,” National workshop on Seismic Resistant Design and Construction Practices organized by Department of Structural Engineering, Annamalai University, Annamalai Nagar, Chidambaram, 26th April 2008.
45. Keynote lecture on “Trends in Modern Steel Construction”, National level conference on Failure Studies and Remedial Measures., KSR College of Engineering, 19th & 20th Dec.2008.
46. Special Lecture on “Reinforcement detailing for seismic resistant structures”, State level technical seminar, THIAGCIVIL-2K7, Thiagarajar polytechnic college, Salem, 7th February

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|-----------|--|------------|-----|-----------------------------|-----------|
| | 2007. | | | | |
| | <p>47. Guest lecture on “IS456 – 2000 for Concrete: General Design Consideration and Special Design Requirements for Structural Members.” presented in 3 days training program conducted for Tamil Nadu Electricity Board engineers at Training and Development institute at TNEB Kuthiraikkalmedu, Bhavani TK, Tamil Nadu, India.</p> <p>48. Seminar on “Analysis and Design of Cable Stayed Bridges.” Presented at Anna University, India</p> <p>49. Seminar on “Failure Investigation on Jack-up Rig leg structure.” Presented at Ocean Engineering Centre, IIT, Chennai, India</p> <p>50. Seminar on “Repairing of Corroded Risers and Riser Bends.” Presented at Ocean Engineering Centre, IIT, Chennai, India.</p> | | | | |
| 12 | List of PhD/MS Thesis Guidance | | | | |
| | <p><u>Ph.D. Awarded (6)</u></p> <p>1. Mrs. K. Chithira, “Ultimate Load Behaviour of Circular CFT Columns with and without Shear Connectors.” Ph.D., Awarded, 2012.</p> <p>2. Mr. K. Senthil Kumar, “Effective Utilization of Electronic Plastic Waste as a Partial Replacement for Coarse Aggregate in Concrete”., Ph.D., Awarded, 2015.</p> <p>3. Mr. Cyril Thomas, A. “Behaviour of Thin-webbed Castellated Beams Strengthened using CFRP”, Ph.D., Awarded, June 2019.</p> <p>4. S. Kanchidurai., “Strength Characteristics of Novel Mesh Embedment Technique for New Brick Construction with Least Expensive Material – Ph.D. (PT). Awarded, 2020</p> <p>5. Mr. K. Sakthimurugan, RC Beam-column joints retrofitted with Basalt Fabric, Awarded, 2022</p> <p>6. Mr. Sreekumar Punnappilly, Influence of Building Geometry on Blast Load Response Ph.D. (PT), Awarded, 2025</p> <p>7. Mrs. Sophia Immanuel, “Ultimate Load Behaviour of Stiffened Textile Reinforced Concrete (TRC) Composite Panels Under Flexural And Impact Load– Thesis Submitted on 28th January 2026</p> <p><u>On-going Ph.D. (6)</u></p> <p>8. Mr. Varunkumar P., Effect of buck stay in non-linear behavior of PEB frames, Ongoing.</p> <p>9. Ms. Kamarthi Aparna, “Application of AI techniques to develop predictive models for concrete properties”</p> <p>10. Mr. M. Kumaran, Part time PhD - Ongoing</p> <p><u>M.S. Guidance (2)</u></p> <p>11. Ms. Radhika, K.S., “Influence of Mineral Admixures on Bond Stress Characteristics of Circular Concrete Filled Steel Tubular Columns”, MS, Completed, 2013.</p> <p>12. Mr. Harikrishna, T., “Non-linear Behavior of Boiler Supporting Structure Designed with Circular CFT Columns and Steel Beams”, M.S, Completed, 2015.</p> | | | | |
| 13 | List of M. Tech Thesis Guided | | | | |
| | <u>Number of P.G. Projects guided (65+3(ongoing)=68 Nos)</u> | | | | |
| 1. | Ramesh, P | 2006-2008 | 35. | Anandu Aravind | 2016-2018 |
| 2. | Sasikala, M., | 2006-2008 | 36. | Mohammed Azharudeen N | 2016-2018 |
| 3. | Rahmathinnisa, M., | 2007-2009 | 37. | Jyothis Paul, E | 2016-2018 |
| 4. | Sakthivel, V., | 2007-2009 | 38. | Wagh Srikant Rajendra | 2016-2018 |
| 5. | Velmurugan, M., | 2008-2010 | 39. | Shajith Hussain, J | 2017-2019 |
| 6. | Mohammed Hashim, C.P., | 2008-2010 | 40. | Aketi Chanikya Chandramouli | 2017-2019 |
| 7. | Sureshkannan, G., | 2008-2010 | 41. | Gedela Bhargavi | 2017-2019 |
| 8. | Madhavi, N., | 2008-2010 | 42. | Navya Talla | 2018-2020 |
| 9. | Sathiyaseelan, S., | 2009-2011. | 43. | Vobba Reddy Abhishek Reddy | 2018-2020 |
| 10. | Ramakrishnan, S., | 2009-2011. | 44. | Arvinth Raj | 2018-2020 |
| 11. | Priya S Natesh | 2009-2011 | 45. | V Vijay Chandra (CTM) | 2018-2020 |
| 12. | Bathrudeen Syed Ishak | 2009-2011 | 46. | VimalRaj, A (203219023) | 2019-2021 |
| 13. | Somasundaram, S | 2010-2012 | 47. | Bandari Vineeth Kumar | 2020-2022 |
| 14. | Rajendraprasad, K | 2010-2012 | 48. | Aditi Pingle | 2015-2017 |
| 15. | Merin Sebastian | 2010-2012 | 49. | Meena Priya | 2015-2017 |
| 16. | Supriya | 2010-2012 | 50. | Rahul Mali | 2015-2017 |

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| 17. | Yasir, V.P | 2011-2013 | 51. | Narsiram Gurjar | 2015-2017 |
| 18. | Resmi, G | 2011-2013 | 52. | Dhruval Damor | 2020-2022 |
| 19. | Jeyashree, T.M | 2011-2013 | 53. | Ummanna Vyshnavi | 2020-2022 |
| 20. | Dhanya, J. | 2011-2013 | 54. | Fiza Khan (CTM) | 2020-2022 |
| 21. | Muthukumar, S. | 2011-2013 | 55. | Aniket Ozha | 2021-2023 |
| 22. | Honey Verma | 2012-2014 | 56. | Rampally Megha Shyam | 2021-2023 |
| 23. | Siddhartha Kushwaha | 2012-2014 | 57. | Thakare Ankush Damodhar | 2021-2023 |
| 24. | Nitin Anand, T | 2012-2014 | 58. | Priyank Chauhan (CTM) | 2021-2023 |
| 25. | Hardik Mandwe | 2012-2014 | 59. | Abhijeet Sunil Chakrey | 2022-2024 |
| 26. | Arun P.V. | 2013-2015 | 60. | Adesh Pratap Singh | 2022-2024 |
| 27. | Kripanjith | 2013-2015 | 61. | Athul D | 2022-2024 |
| 28. | Karthikeyan | 2013-2015 | 62. | Siddarth. S. (CTM) | 2022-2024 |
| 29. | Raja | 2013-2015 | 63. | Aditya Vikram Singh | 2024-2025 |
| 30. | Munukutla Sai Krishna | 2014-2016 | 64. | Pranjul Singh Dixit | 2024-2025 |
| 31. | Ruturaj, K. Sawant | 2014-2016 | 65. | Patel Meet Pravinbhai | 2024-2025 |
| 32. | Shobana, R. | 2014-2016 | | | |
| 33. | Sadananda, H I | 2014-2016 | | | |
| 34. | Aarthy, E. | 2014-2016 | | | |
| | | | | | |
| Number of P. G. Projects ongoing | | | | | |
| 1. | Harigowtham A | 2025-2026 | | | |
| 2. | Vennapusa Siva Shankar Reddy | 2025-2026 | | | |

| 14. | Institute Level Activities | Period |
|-----|--|---------------------------|
| | 1. Coordinator, Global Academic and Research Networking Centre (GARC), NIT Trichy | w.e.f 01.01.2026 |
| | 2. Dean (Planning & Development) | 29.12.2022 – 24.12.2025 |
| | 3. Head, Department of Civil Engineering | 11.10.2017 to 10.10.2019 |
| | 4. Associate Dean (Admin., IIIT Srirangam) | 27.07.2016 to 10.10.2017 |
| | 5. Associate Dean (Planning & Development) | 10.10.2012 to Oct.2015 |
| | 6. Member, Estate Maintenance Committee Inspection had been made to many old quarters and repair works have been carried out. | 5/2008 - 12/2010, ~2.5yrs |
| | 7. Member, Water Management Committee Geological survey carried out and seven bore wells made to meet the water requirement | 5/2008 - 12/2010, ~2.5yrs |
| | 8. Member, Institute Day Committee | 2008, 2009,2010,2011,2012 |
| | 9. Member, Convocation Day Committee | 2007,2008, 2009 |
| | 10. Member, Supercritical Boiler Technology group | Since 2012 |
| | 11. Member, S2-MEMS-centre of excellence | Since 2012 |
| | 12. Member, Annual Sports Day Committee, 2012 | 2010 |
| | 13. Member, Books Recommendation Committee to Central Library | 2008 |

| 15. | Department Level Activities | Period |
|-----|---|---------------------------------|
| | 1. Program coordinator, M.Tech Structural Engineering | April 2015 – Oct'2017 |
| | 2. Member, Department Administrative Council (DAC member) | Since 7 th Feb 2012. |
| | 3. Member, Department Purchase Committee | Since |
| | 4. Department Node, TEQIP Phase-II | Since April 2011 |
| | 5.Lab In-charge, Structural Engineering Lab | August 2007 – Oct'2017 |
| | 6. Staff Advisor, Civil Engineering Association | 3-9-2010-till date |
| | 7. Chairman, M.Tech (TEM) 3 rd Semester | 2010, 2011 |
| | 8. Chairman, M.Tech. (TEM) 4 th Semester | 2010, 2011 |
| | 9.Chairman, B.Tech. 4 th Semester | 2011-2012 |
| | 10. DPEC Member for M.Tech (SE) | 2010, 2011 |
| | 11. Member, UG - NBA Committee | 2009 |
| | 12. Member, PG – NBA Committee | ongoing |

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|---|------------|
| 13. Coordinator, Final Year UG Project Work | 2007, 2008 |
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| 16. | Details of IT (Information Technology) Exposure / Computer skills | |
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| | 1. Finite Element Software | <i>ABAQUS, PATRAN, NASTRAN, SOLVIA, ANYSIS, ROBO V6, NISA and SESAM</i> |
| | 2. Structural Design Software | <i>SAP 2000, STADD-III</i> |
| | 4. Drawing Aids | <i>AutoCAD LT 2000I</i> |
| | 5. Operating Systems | <i>Windows, MS DOS, Unix</i> |
| | 6. Languages | <i>Fortran, basic, & Knowledge in C</i> |
| | 7. Common Windows Applications | <i>MS Word, MS Excel, MS Power point... etc.</i> |
| | 8. Web page design & HTML code | <i>MS Front Page.</i> |

| 17. Visits Abroad and Nature of Assignment | | |
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| Country | Period of Visit From To | Purpose |
| South Korea | 28.08.2017 – 01.09.2017 | International Conference on Steel and Composite Structures (ICSCS17), part of The 2017 World Congress on Advances in Structural Engineering and Mechanics (ASEM17), Seoul, South Korea |
| China | December 3-5, 2015 | International Conference on Advances in Steel-Concrete Composite Structures (ASCCS-2015) at Beijing, China |
| Japan | 18 th May to 13 th June 2009 | Short term research cum training program under TEQIP |
| Australia | 18-20 th June 2008 | To present a technical paper in Fifth International Conference on Thin-Walled Structures (ICTWS'2008) held at Gold coast, Brisbane, Australia |
| Malaysia | Jan. 2004 to Jan 2006 | Worked as a Manager, Research & Development unit of Corro-shield (M) Sdn BhD, a Malaysian based public listed company. |
| Vietnam | 4 days visit during 2003 | To investigate a structural failure due to adjacent earth work excavations. |
| United States of America | March 22-24, 2000 | To present a technical paper in an International Conference on Steel and Concrete Composite Structures held at Los Angeles, USA. |
| Singapore | June 1998 to Jan 2004 | June 1998 – Dec.2001: Ph.D studies at National University of Singapore Jan 2002 – Dec.2003: Worked as an offshore structural engineer at Det Norske Veritas, Singapore |

| University |
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| National University of Singapore, Singapore |
| Nanyang Technological University, Singapore |
| University Kebangsaan Malaysia, Malaysia |
| University Technology Petronas, Malaysia |
| University Putra Malaysia, Malaysia |
| Queensland University of Technology, Brisbane, Australia. |
| University of New South Wales, Sydney, Australia |
| Nagoya Institute of Technology, Nagoya, Japan |

| 18. | List additional short courses attended |
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| | <ol style="list-style-type: none"> 1 International Workshop on “Emerging Trends in Earthquake Engineering and Structural Dynamics”, Organized by IIT Delhi, 20th & 21st December 2014. 2 A One Day Workshop on “Project Management Education at National Institutes of Technology (NITs)” is organized by L&T Institute of Project Management, Chennai, along with |

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| | <p>the support of NIT Warangal on 21st March, 2014 at Chennai.</p> <ol style="list-style-type: none"> 3 Advanced Course on Seismic Response Control and Damage Mitigation Methodologies for Buildings and Structures, from 19th – 21st February 2014 at SERC Taramani, Chennai - 600113 4 Advance Developments in Beams & Plate Theories and Structural Dynamics, 4th – 6th January 2014, MNIT Jaipur 5 Short Course on FEM, lectures by Prof. J.N.Reddy, Texas A&M, at IIT Hyderabad, India during 19-21st December, 2012. 6 First Indo-US workshop on Forensic Engineering, Department of Civil Engineering, NIT, Trichy, India, 15-17, December 2010. 7 Workshop cum Training Course on Introduction to Seismic and Wind Resistant Structures, CBRI-ISWE, CSIR Centre, New Delhi, 3-5, Dec. 2010 8 International Advance School in Wind Engineering, CBRI-ISWE-Tokyo polytechnic University, Japan, CSIR Centre, New Delhi, 6-8, Dec. 2010 9 Workshop on Deepwater Offshore Structures, Department of Ocean Engineering, Indian Institute of Technology, Chennai-36, February 6-7, 2009 10 Workshop on National Building Code of India 2005, Organized by The Institution of Engineering (India) and Bureau of Indian Standards, at NIT Campus, 24th January 2009 11 “Two day workshop on IS800-2007,” Jointly organized by INSDAG and IITM, 27th & 28th August 2008. 12 Workshop on Background to the Limit State Design of Cold formed steel members, Structural Engineering Research Centre, Taramani, Chennai, 17th December, 2007. 13 Ansys Training Program, Organized by NIT Trichy under Faculty Development Program. Conducted by ACTIVE Bangalore, July 4-13, 2007, NIT Trichy. 14 Course on Structural Analysis – Modern Methods held under Anna University Faculty Development Program, 20th November to 2nd December 2006, VLB Janakiammal Engg. College. 15 Non-Linear Seismic Analysis of Structures, IIT Kanpur, Course coordinator: Prof. C V R Murthy, Prof. D C Roy and Prof Sudhir K Jain, October 14-18, 2006, IIT Kanpur. 16 Failure modes, effect and criticality analysis, conducted by DNV (KL) and PRSS, KL, Malaysia. 24th May 2005. 17 Three days training program on ISO-9001 – 2000. Conducted at Perisai Petroleum Tech, KL 18 Finite Element Modeling of Composite Materials, conducted by MSC Software and Petronas Research & Scientific Services (PRSS), Kuala Lumpur, Malaysia, 2003 19 Seismic Design of Reinforced Concrete Buildings, conducted by IIT Kanpur, July 7th to 9th, 1997, Course co-coordinator Prof. Sudhir K. Jain 20 Course on Tower crane, its Applications and Installations, Conducted by Project Manager, L&T Cement factory construction site at Gujarat, 1997. 21 Detailing for Multi storeyed R.C.C Framed Structures, conducted by Building Technology Centre, Anna University, Chennai. 22 AutoCAD and its Application. Annamalai University, Chidambaram, 1994. 23 Certificate Course on Computer Programming, Annamalai University, 1989 |
| 19. | Special Programs attended |
| | <ol style="list-style-type: none"> 1. Seven Habits of Highly Effective People – Signature program, NIT Trichy, December 21-23, 2009 2. Professional Development Training under TEQIP-III at Indian Institute of Management Raipur, 11-15 February 2019 |
| 20. | Conference/Workshop/Seminar Organized |
| | <ol style="list-style-type: none"> 1. Chairman, “14th Structural Engineering Convention (SEC-2024)”, 12-14th December 2024, at NIT Trichy. 2. Coordinator, “Two Days Short Course on Advancement in Concrete Technology”, 27th & 28th March 2015, at NIT Trichy, Self supported course. 3. Coordinator, “Two Days Short Course on Introduction to Finite Element Method and its Applications”, 23rd & 24th January 2015, at NIT Trichy. Self Supported Course in Association with Indian Association for Computational Mechanics (IndACM). 4. Coordinator, “3-Day Short Course on Finite Element Method Lectured by Professor J N Reddy, Texas A&M University, USA”, 21st to 23rd March 2013 5. Coordinator, “Moments’12 – National Level Technical Symposium”, organized by Civil Engineering Association, NITT, 3rd and 4th March 2012 6. Coordinator, “Inauguration of Indian Green Building Council – NITT Student Chapter”, organized by Civil Engineering Association, NITT, March 2012 |

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| | <ol style="list-style-type: none"> 7. Coordinator, “One-week short-term course on Introduction to Forensic Engineering”, Organized jointly by CEA, NITT and University of North Carolina, Charlotte, USA, 9-13th January 2012. 8. Coordinator, “NITT-BHEL 40 Hours Course on Limit State Design of Steel Structures” to Engineers at BHEL Trichy, 2011 9. Coordinator, “Six Days Workshop cum Training Program on Design, Construction, Quality Control and Maintenance of Bridges”. Conducted for Engineers (Batch-1) in Department of Rural Development Authorities, Government of Tamil Nadu. 8-13 February, 2010. 10. Coordinator, “Six Days Workshop cum Training Program on Design, Construction, Quality Control and Maintenance of Bridges”. Conducted for Engineers (Batch-2) in Department of Rural Development Authorities, Government of Tamil Nadu. 31st May – 5th June, 2010. 11. Coordinator, “Six Days Workshop cum Training Program on Design, Construction, Quality Control and Maintenance of Bridges”. Conducted for Engineers (Batch-3) in Department of Rural Development Authorities, Government of Tamil Nadu. 28th June – 3rd July, 2010 12. Coordinator, “Six Days Workshop cum Training Program on Design, Construction, Quality Control and Maintenance of Bridges”. Conducted for Engineers (Batch-4) in Department of Rural Development Authorities, Government of Tamil Nadu. 13. Coordinator, “Moments’11 – National Level Technical Symposium”, organized by Civil Engineering Association, NITT, 5th & 6th Feb. 2011 14. Coordinator, “National Education Day – Panel Discussion on Academic Reforms”, NIT, Trichy. 10th November, 2009 15. Coordinator, “Two-day workshop on Advances in Steel Structural Design and Applications”, TEQIP-I, National Institute of Technology, Trichy-15, 19th & 20th Dec.2007. 16. Coordinator, “One-day workshop on “Geotechnical Investigation and Decision making in foundations”, TEQIP-I, National Institute of Technology, Trichy-15, 23rd October 2007. 17. Coordinator, “National Conference on Earthquake and Transportation Engineering, NCETE’07”, Sona College of Technology, Salem during 22nd and 23rd of March 2007. |
| 21. | Recently Involved Research & Consultancy Projects |
| | <ol style="list-style-type: none"> 1. Research Project - Completed <ol style="list-style-type: none"> 1. NITT-BHEL Joint Project on “Analysis and Design of Large Size HRSG using Limit State Method for optimization and bringing out the salient features of Limit State Design for future application. Research Project Value of INR 7.27 Lakhs 2. NITT-BHEL Joint Project on “Analysis and Design of Horizontally Spliced Steel Girders”, Research Project Value of INR 7.70 Lakhs 3. Affordable Housing for Economically Weaker Section in All Disaster Prone Areas – DST-TARE, 2019, Research Project Value of INR 18.3 Lakhs 2. Technical Expert for Inspection of Structural failures/Collapse Projects <ol style="list-style-type: none"> 1. Expert committee member in inspecting the root cause analysis in failure of six lane elevated structure in Ambur Town NHAI PIU Krishnagiri to Walajahpet section of NH-48 from 0+000 to km 148+300.(2024) 2. Inspection of Collapse of Precast Segmental span P16-P17(RHS Carriageway on a four lane of Seithiyahopu to Cholopuram from 65.95 km to 116.44 section of NH-45C in the state of Tamil Nadu as an Expert Committee Member for Technical Analysis. (2022). 3. Inspection in the Collapse of Girders o\in NHAI-PIU Madurai Four lane of Madurai-Chettikulam section from 0/000 to 7/300 km of NH-785 as a Expert Technical committee member.(2021) 4. Expert Committee member in the inspection of 2x2 lane Bridge with footpath across River Ganga across Sultanganj and AguwaniGhat including navigational span of cable stayed and approaches (Connecting NH-31 and NH-80) in the state of Bihar –(2022). 5. Guideline preparation committee to prepare guidelines to avoid failure of bridges/precast segmental super structures in Highway Construction.(NHAI), 2022 3. Consultancy Projects <p>Industry sponsored Projects</p> <ol style="list-style-type: none"> 1. Vetting of Beam Joint at NIT- Puducherry Campus, Karaikal (RC352), Teemage Building Pvt Ltd, 249, Maraimalaiadigal Salai, Nelithope, Pudupalayam, Pondicherry -2024 2. Consultancy charges towards vetting for Cons.of BRIDGE in Marungapuri (RC279), BDO, Marungapuri, Tiruchirappalli Dt.-2024 |

3. Vetting for Cons.of BRIDGE across Mamundi river, Manapparai (RC278), BDO, Manapparai, Tiruchirappalli Dt. -2024
4. Vetting for Construction of BRIDGE in across Uyyankondan vaaikal, BDO, Thiruverumbur, Tiruchirappalli Dt.-2024
5. Vetting for Construction of BRIDGE in Pullambadi, Trichy dt. (RC276), BDO, Pullambadi, Tiruchirappalli Dt.-2024
6. Vetting of construction of Bridge across Iyyaru at Kattapalli (RC275), BDO, Uppliyapuram, Tiruchirappalli Dt.-2024
7. Vetting of Construction of Bridge across Iyyaru River in km 1/5 of Sithabur Manapalayam Koduthurai Road in Sithabur Panchayat Musiri (RC274), BDO, Musiri, Tiruchirappalli Dt.-2024
8. Investigation of Sultanganji Bridge Project (RC272, RC273 & RC355), M/s S P Singla Construction Pvt. Ltd, Bihar.- 2024
9. Vetting for construction of Bridge in Veppanthattai Block, Bdo, Panchayat Union Office, Veppanthattai, Perambalur Dt. -2024
10. Vetting of Rectification work at Kalyan mall site, Teemage Builders Pvt Ltd., Tirupur- 2023
11. Design and Drawing of Gopuram in forecourt of NITB at Tiruchirappalli Airport, Creators Engineers & Interiors Pvt. Ltd, No. 26 - 2023
12. Structural Design and Drawing of Primary Health Center, Puthur Uthamanur (RC251), The Executive Engineer (RD), DRDA, Tiruchirappalli.-2023
13. Vetting for construction of Bridge across Karuppangal odai along T. Kudikadu to Kumizhium Road, Jayankondam (RC248), BDO, PANCHAYAT Union Jayankondam, Ariyalur dt.- 2023
14. Vetting for Construction of Bridge across Anaivur Odai along Anaivur Odai to ICL Gate Road in Thalavai Panchayat, across pallakollavari odai along Thular to Marungoor road in Thular Panchayat, across kumalur odai along Vanjinapuram to Nakkambadi road in Nakkambadi Panchayat, Sendurai (RC247) , BDO, Panchayat Union Sendurai, Ariyalur dt, -2023
15. Stability Certificate of WWA School Premises (RC006), The Executive Director. Ordinance Factory, Tiruchirappalli, Tamil Nadu (A Unit of AWEIL)-2023
16. Inspection and Recommendation of the Bridges between OFT Roads (RC005), The Executive Director. Ordinance Factory, Tiruchirappalli, Tamil Nadu (A Unit of AWEIL)- 2023
17. NDT Test for Bridge on Madurai (RC004), The Divisional Engineer Highways, NABARD & Rural Roads, Madurai- 2023
18. NHAI projects – structural vetting of culverts, all type of bridges
19. Gani Market upgradation – Erode smart city limited, Erode – 2020
20. IOCL Terminal at Ulundurpettai, Tamilnadu– PDIL (GoI) – 2019-2020
21. CPWD structural designs for various buildings – 2017-2020
22. TPQA work for CPWD projects – 2019-2020
23. PTK Associates, Chennai, Proof checking of Design for the Dailmer (India) Bus plant at Oragadom and many other projects, Chennai –2015-2019.
24. Mukesh and Associates Salem – MES project at Ezhilmala, Kerala - 2018
25. Tamilnadu Civil Supply Corporation, Development of Large Godowns at Kovilpathu, Nagai District –2015
26. Structural Stability investigation for Dalma Cements , Dalmiyapuram, 2013
27. 500,000 liter capacity, two compartments, shaft supported funnel type Overhead Tank, with a height of 25m and 500,000 liter capacity, two compartments, Underground water sump. for BHEL Tirumayam, 2011
28. Study, Repair and Rehabilitation of Molasses Tank, Trichy Distilleries, Trichy, 2008
29. Rebar Locater Test and other NDT Testing and consultancy for Railway Electrification work between Trichy Madurai Electrification Project, Southern Railway, Trichy, 2009
30. Design verification on failure investigation on SICAL Conveyor System at Manali Port, Chennai, Client: Sun Engineering, Trichy, 2011
31. Structural Stability investigation for Line-1 and Line-2 Silo's in Chettinad Cements, Ariyalur works, Tamil Nadu, 2011
32. Structural Stability investigation for AAvin Milk Unit at Pudukkottai, Tamil Nadu, 2011

Other consultancy Projects

1. Soil Investigation and Structural Design for Community Hall at Nannilam, Nagapattinam District, Tamil Nadu, 2007
2. Soil Investigation and Foundation Design for Nagai Tsunami Housing, 2007
3. Soil Investigation and structural design for Lalpettai Police Station, Tamil Nadu, 2007
4. Soil investigation for Tsunami Housing at Tondi-Mandapam-Keelakarai-Rameswaram,

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| | <p>2008</p> <ol style="list-style-type: none"> 5. Soil investigation for General Hospital for Krishnapuram and Veppore in Perambalur District, 2008 6. Inspection and certification of construction of Government School site at Ariyamangalam, 2008 7. Design of Formwork staging for Madhucon for NH projects. 2008 8. Soil Investigation and Structural Design for Municipality Office Building at Manapparai, Tamil Nadu, 2008 9. Soil Investigation for Bridges at various places such as Nalankottai, Anniyur, Vadavar, Perumpanniyur, Nagai District, Tamil Nadu, 2008 10. Stability investigation of Hotel Puppy's Inn at Rameswaram, 2008. 11. Soil Investigation for construction of School Building at Sengulam Colony, Trichy Corporation, Trichy, Tamil Nadu, 2008 12. Soil Investigation and Structural Design for construction of School Building at Senthannirpuram, Trichy Corporation, Trichy, Tamil Nadu, 2009 13. Soil Investigation for Bridges at Nannilam Panchayat, Bridge across Thirumalairajan river in Kothavasal, Nagai District, Tamil Nadu, 2009 14. Structural Stability investigation for TAHDCO – Adhi dravidar Girls Hostel at Kurumbalur, Perambalur District, Tamil Nadu, 2009 15. Soil Investigation for Community Hall at Thuraiyur, Trichy District, Tamil Nadu, 2009 16. Structural design of Two Pump Rooms and Generator Room at Keechankuppam and Savariar Kovil, Tsunami Projects, Nagai District, Tamil Nadu, 2010 17. Soil Investigation for RMSA Schools in Ariyalur district, 2011 18. Soil investigation and Structural Design for construction Gasifier Crematorium for Aranthangi Municipality, 2012 19. Soil investigation and Structural Design for construction Overhead water tank for Aranthangi Municipality, 2012 20. Study on Crushed Stone/Sand as Coarse Aggregate and Fine Aggregate for Chettinad Cements, Karikali works, Karur, 2012 21. Soil investigation and Structural Design for construction Overhead water tank for Arumbavur Town Panchayat, Perambalur District, 2013 |
| 22. | Industry – Institute Interaction |
| | <ol style="list-style-type: none"> 1. Industrial Visit to NHAI Flyover construction site at Tanjore NH BHEL Intersection, 16th September, 2022 2. Industrial Visit to TNCSC Project at Velankanni, 2016 3. Industrial Visit to Daimler India Commercial Vehicle Pvt Ltd at Oragadam Chennai on 19th March 2015. Accompanied with 80 B.Tech 3rd Year Students. 4. Industrial Visit to BHEL Tirumayam, 2013 5. Industrial Visit to BHEL Trichy. 2012 |
| 23. | Awards, Honors and Outreach Activities |
| | <ol style="list-style-type: none"> 1. Chairman organizing International Conference , 14th Structural Engineering Convention (SEC-2024) from 12 -14th Dec 2024 at NIT Tiruchirappalli (<i>Major Achievement</i> with 500+ participants 11 Experts from Abroad and 40+ experts of Nationally renowned Academicians and Industry with sponsorship amount raised to 75 lakhs) 2. Editor for Proceedings of 14th Structural Engineering Convention (SEC-2024) Conference. ISBN No :979-8-89171-163-1.(Extended Abstracts of 400+ Conference papers were published) 3. Best Performer Award 2024, Institute Day awards for Department of Civil Engineering, NIT Tiruchirappalli 4. Academic Excellence Award 2022, bestowed by Institution of Engineers India (IEI), Tamil Nadu State Centre (TNSC), Centenary Year Celebration of TNSC 1922-2022, Hotel Le Royal Meridien, Chennai, 15.12.2022 5. Best Consultancy Projects Award 2017, awarded by National Institute of Technology Tiruchirappalli, 620015 6. Member, State Technical Authority (STA), appointed by NRDA, Government of India for Technical Evaluation of PMGSY projects in Tamil Nadu and Pondicherry (Since 2018) 7. Member, Guideline preparation committee to avoid Failure of Bridges/pre-cast segmental super structures in Highway construction, appointed by NHAI dtd 18.02.2022, Ministry of Road Transport and Highways, Government of India, New Delhi 8. Expert Committee Member, To investigate the collapse of Precast Segmental Span of P16- |

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| | <p>9. P17 at four laning of Sethiyathoppu-Cholapuram NH45C, NHAI project appointed by NHAI dtd 22.01.2022, Ministry of Road Transport and Highways, Government of India, New Delhi</p> <p>Expert Committee Member, To investigate the collapse of girders at Madurai-chettikulam NHAI project under Bharatmala Pariyojana Phase-1, appointed by NHAI dtd 29.08.2021, Ministry of Road Transport and Highways, Government of India, New Delhi</p> <p>10. Expert Member, Tender Evaluation Committee Member, Vallalar International Centre of Excellence at Vadalur, appointed by Ministry of HR&CE, Government of Tamil Nadu</p> <p>11. Reviewer in many national and international journals including Elsevier Journals.</p> <p>12. Recipient of GATE scholarship during Master Degree studies (1.5 years) at Anna University, India. Scholarship awarded by Ministry of Human Resources, Government of India, 1994-1996.</p> <p>13. Recipient of Research Scholarship during Doctoral Level Research (3.5 Years) at National University of Singapore, Singapore. Scholarship awarded by Singapore National Government, 1998-2001.</p> <p>14. Member, Academic Council, Government College of Engineering, Salem</p> <p>15. Member, BoS, Anna University Chennai</p> <p>16. Member, BoS, PSG Tech., Coimbatore</p> <p>17. Member, BoS, JNTU Ananthapur, AP</p> <p>18. Member, BoS, Pondicherry Engineering College (PEC), Pondicherry</p> <p>19. Member, BoS, Vellore Institute of Technology (VIT) Vellore</p> <p>20. Member, BoS, ICFAI, Hyderabad, TS</p> <p>21. Member, BoS, KSR College of Engineering, Tiruchengode</p> <p>22. Member, BoS, Nanda Engineering College, Erode</p> <p>23. Member, Academic Audit, Anna University, Chennai</p> <p>24. Member, Academic Audit, Kalasalingam University</p> <p>25. Member, Evaluation Committee Member, Swayam Course development at CIT Coimbatore</p> <p>26. Member, Doctoral Committee, Anna University – for many students</p> <p>27. Member, Doctoral Committee, PSG Tech, Covai, CIT Covai, TCE Madurai</p> <p>28. Member, Doctoral Committee, GCE Salem, GCT Covai</p> <p>29. Member, Institute level Advisory Board, Gnanamani College of Technology</p> |
| 24. | Academic projects |
| | <p>Project - 1: Ultimate Strength of Composite Plate Girders (Ph.D. Thesis work)</p> <p>Project - 2: Non-Linear Dynamic Response of Two Hinged Articulated Tower (M.E. Thesis work)</p> <p>Project - 3: Analysis and Design of Prefabricated Building System for University Staff Quarters (B.E.)</p> |
| 25. | Extra curricular activities |
| | <ol style="list-style-type: none"> 1 “B” Certificate Passed in Senior Division National Cadet Corps (NCC). 2 Participated in the Guard of Honor presented to His Excellency, the Governor of Tamil Nadu on 31st March 1986 at Annamalai Nagar, Tamil Nadu 3 Attended two national level camp training (15 days each) under senior division NCC. 4 Three years continuously trained at senior division NCC 5 One year trained at junior level NCC (School NCC) 6 Worked as an active National Service Scheme (NSS) volunteer during 1991 to 1993. 7 Worked as a General Secretary of Post Graduate Student Society at National University of Singapore, Singapore for a period of six months. |
| 26. | <p>I solemnly declare that the information given above are true to the best of my knowledge.</p> <p>Place : Trichy Date : 13/3/2026</p> <p style="text-align: right;">Signature of the Applicant</p> |