

Dr. K. Baskar - Curriculum Vitae



Department / Area of specialization

Civil Engineering: Major in Structural Engg.

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

1.	Name	Dr. K. Baskar
2.	Sex and Marital Status	Male, Married
3.	Nationality and Religion	Indian, Hindu
4.	Date of Birth & Age	12/06/1969, 49Years
5.	Present Position	Professor and Head of Civil Engineering National Institute of Technology, Trichy, TN, India-620 015
	Previous administrative positions	Associate Dean (P&D), NITT – Three years Associate Dean (Admin, IIITS) – One year
6.	Address for Communications	
	<u>Residence Address</u> Dr. K. Baskar, A4, Udhaya Apartment, 65/110 Heber Road, Beema Nagar, TRICHY – 620 001. Tamil Nadu, India. Phone: 0091-9790180736	<u>Permanent Address</u> Dr. K. Baskar, S/o. R. Kaliyamoorthy, Kandiyamedu, Vaiyur (POST), Chidambaram (TK), Tamil Nadu – 608 401, INDIA. Ph: E-Mail: drkbaskar@yahoo.co.in / kbaskar@nitt.edu

7. 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 (81%)	1994
M.E.	Structural Engg.	Anna University, Chennai, India	First class with Distinction (86%)	1996
Ph.D.	Civil Engineering	National University of Singapore, Singapore	NA	2003

8. Professional Membership

<ol style="list-style-type: none"> Life Member (M132730/5) – The Institution of Engineers (India) (M.I.E.). Life Member – Indian Association for Structural Engineering (M.I.A.S.E.) Life Member – Indian Association for Computational Mechanics (M.Ind.A.C.M.) Life Member – Indian Society for Wind Engineering (M.I.S.W.E.) Life Member (LM50381) – Indian Society for Technical Education (M.I.S.T.E.) Life Member - Indian Geotechnical Society (M.I.G.S.)
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9.	Details of Academic Work	
	(i) Curriculum Development <ol style="list-style-type: none"> 1. Structural Dynamics 2. Finite Element Methods 3. Advanced Steel-concrete Composite structures 4. Advanced Steel Structures 5. Seismic Design of Structures 6. Prefabricated Structures 	
	(ii) Courses taught at Postgraduate and Undergraduate levels	
	UG Level <ul style="list-style-type: none"> Structural Analysis-II Steel Structures-I Steel Structures-II Matrix Methods of Structural Analysis Earthquake Resistant Structures Steel-concrete Composite Structures 	PG Level <ul style="list-style-type: none"> Structural Dynamics Finite Element Methods Advanced Steel-concrete Composite structures Advanced Steel Structures Seismic Design of Structures Prefabricated Structures

10. Work Experience			
Organization	Designation	From	To
National Institute of Technology, Trichy – 15. Department of Civil Engineering	Assistant Professor	16.05.2007	15.05.2010
	Associate Professor	16.05.2010	11.03.2018
	Professor	12.03.2018 onward	
Sona College of Technology, Salem, India Dept. of Civil Engineering	Professor,	Feb'06	15 th May 2007
University Technology Petronas, Malaysia	Adjunct Faculty	One semester	
Perisai Petroleum Technology Bhd, Corro-Shield (M) Sdn Bhd, Malaysia	Manager, Research & Development Unit	Jan 2004	Jan 2006
Det Norske Veritas pte Ltd, Singapore	Industry/Structural Engineer	Jan 2002	Dec 2003
National University of Singapore, Singapore	Research Scholar/PhD Research student	June 1998	Dec. 2001
Larsen & Toubro Ltd, ECC-EDC Headquarters, Chennai, India	Design Engineer – Supervisory cadre – A	April 1996	May 1998

11.	Research Publications
	List of Refereed Journal publications <ol style="list-style-type: none"> 1. S. Kanchidurai, 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. 2. Cyril Thomas, A., and Baskar, K., (2018), "Strengthening of thin-webbed castellated beams using CFRP". International Journal for Computational Methods in Engineering Science and Mechanics, Vol. 19(6), pp. 396-404. 3. K. Senthil Kumar, Premalatha, P.V, Baskar, K., Sankaran Pillai, G. and Shahul Hammed, P., (2018) Assessment of Radioactivity in Concrete made using E-waste Plastic", In Press, Journal of Testing and Evaluation, ASTM International, 46(2), pp. 574-579. 4. A, Cyril Thomas and K, Baskar (2018), "Testing and Evaluation of Bond Surface Profile Influencing the CFRP Strengthening of Steel Members", Journal of Testing and Evaluation, ASTM International, Vol. 46(6), pp. 2569-2583. 5. 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.

6. 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), [DOI: 10.1061/\(ASCE\) HZ.2153-5515.0000387](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000387).
7. Aditi Pingle and **K. Baskar**,(2017) “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,
8. Senthil Kumar, K., Premalatha, P. V., and **Baskar, K.**, (2017) “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.
9. Senthil Kumar, K., Gandhimathi, R., and **Baskar, K.** (2017), “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.
10. 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
11. 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
12. 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
13. 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
14. 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.
15. 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.
16. 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
17. 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
18. 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.
19. 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
20. 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.
21. 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.
22. 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.

23. 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.
24. 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.
25. 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.
26. 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.
27. 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
28. 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.
29. 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.
30. 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.
31. 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.
32. 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.
33. 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.
34. 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
35. 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.
36. 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.
37. 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

1. 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

	<ol style="list-style-type: none"> 2. 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 3. 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 – 327, 21st – 23rd December, 2016. 4. 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. 5. 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. 6. 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. 7. 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. 8. 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 9. 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. 10. 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. 11. 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) 12. 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. 13. 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. 14. Senthil Kumar, 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 15. 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. 16. 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. 17. 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
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	Engineering Research, ICETT 2012, Baseliros Mathews II College of Engineering, Kollam, Kerala, India, February 20-21, 2012
18.	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 28 th and 29 th 2012.
19.	Sathiyaseelan Subramanian and Baskar Kaliyamoorthy, "Buckling Behavior of Thin Plates under Combined in-Plane Shear and Tensile Stresses". 6 th International Conference on Thin-walled Structures, ICTWS'2011, Sep.5-7, Timisoara, Romania, 2011.
20.	Chithira, K. and Baskar, K., "Investigation on the Behaviour of Circular CFT Columns With and Without Shear Connectors". 6 th International Conference on Thin-walled Structures, ICTWS'2011, Sep.5-7, Timisoara, Romania, 2011.
21.	Baskar Kaliyamoorthy and Sureshkannan Ganeshan , "Behaviour of Composite Deck Slab Made using Steel Sheets with Perforated Stiffeners". 6 th International Conference on Thin-walled Structures, ICTWS'2011, Sep.5-7, Timisoara, Romania, 2011.
22.	Baskar.K and Rahmathunnisa.M., "Non-Linear Behaviour of Semi Rigid Road Safety Barrier". 6 th International Conference on Thin-walled Structures, ICTWS'2011, Sep.5-7, Timisoara, Romania, 2011.
23.	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
24.	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, 1-5 th Feb 2009
25.	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, 1-5 th Feb 2009
26.	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
27.	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
28.	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
29.	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.
30.	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.
31.	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.
32.	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 aluminium, ASSCCA'03, Sydney, Australia, June 23-25, 2003

33. 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
34. 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
35. 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
36. 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
37. 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.
38. 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

1. 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
2. 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
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. Merin Sebastian and Baskar, K., "Nonlinear Behaviour of Steel Frame with Aluminium Shear Panel", Proceedings of the National Conference on Contemporary Civil Engineering Research and Practices – CCERP2012, April 20-21 at MIT Manipal. Pp.100
9. 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
10. 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", KRPRITSE, Hyderabad, 6th & 7th January, 2012.

11. Rahmaththunnissa 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
12. 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
13. 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

List of special/invited lectures/Seminars

1. Keynote Address in the National Conference on “Innovative Trends and Advances in Civil Engineering”, Kings College of Engineering, Punalkulam, Thanjavur, 16.03.2019
2. 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
3. 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
4. Special lecture on “Affordable Homes”, Institution of Engineers Trichy Chapter, BHEL Campus, On World Habitat Day, 02.10.2017
5. 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
6. Special Lecture on “Role of Civil Engineers and Opportunities”, Shanmuganathan Engineering College, Pudukkottai, 01.06.2017
7. CEA Inauguration address on “Developments in Steel Construction”, Shanmuganathan Engineering College, Pudukkottai, 2nd September, 2016
8. Inauguration and invited lecture on “Modern Trends in Steel Structures”, Annai College of Engineering, Kumabakonam, 22nd September 2015.
9. Inauguration and invited lecture on “Opportunities in Civil Engineering”, Ponnaiyah Ramajam College of Engineering and Technology, Tanjore, 4th September 2015.
10. 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.
11. 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.
12. 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.
13. Inaugural address cum invited lecture “Opportunities in Civil Engineering”, Inaugural function of Civil Engineering Association at Shanmuganathan Engineering College, Arasampatti, Pudokottai District, 9th August, 2014.
14. 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.
15. Invited Lecture on “ANALYSIS AND DESIGN OF PLATE GIRDER According to IS800:2007”, Faculty Development Program at Coimbatore Institute of Technology, 09th November 2013

16. Invited Lecture on “DESIGN OF BEAMS According to IS800:2007”, Faculty Development Program at Coimbatore Institute of Technology, 09th November 2013
17. 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.
18. 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
19. Lecture on Offshore Structures, NSK college, Nagercoil, 2012
20. Lecture on steel Structures, PSR College of Engineering Sivakasi, 2012
21. Guest lecture on “Introduction to Finite Element Methods”, Two Day Workshop on Finite Element Analysis using Ansys, Oxford Engineering College, 2&3rd March 2012.
22. Special seminar on “Introduction of Steel Structures in Offshore construction”, Civil Engineering Association, National Institute of Technology, Trichy, 2012
23. 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
24. 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
25. 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
26. Invited Lecture on “Design of Composite Beams and Shear Connectors”, Workshop of Steel-concrete composite structures, Anna University, Chennai, 22nd March, 2011
27. 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.
28. 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.
29. 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.
30. Special Lecture on “Earthquake Engineering and Construction Practices” at Periyar Maniammai University, Vallam, Tanjore, Tamil Nadu, India, 2nd September 2009
31. 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.
32. Special lecture on “Steel structures in offshore construction”, The Institution of Engineers (India), Tiruchirappalli Local Centre, Tiruchirappalli – 620 014, 5th August 2008
33. 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.
34. 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.
35. Special Lecture on “Reinforcement detailing for seismic resistant structures”, State level technical seminar, THIAGCIVIL-2K7, Thiagarajar polytechnic college, Salem, 7th February 2007.
36. 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.

	37. Seminar on “Analysis and Design of Cable Stayed Bridges.” Presented at Anna University, India		
	38. Seminar on “Failure Investigation on Jack-up Rig leg structure.” Presented at Ocean Engineering Centre, IIT, Chennai, India		
	39. Seminar on “Repairing of Corroded Risers and Riser Bends.” Presented at Ocean Engineering Centre, IIT, Chennai, India.		
12.	List of PhD/MS Thesis Guidance		
	<u>Ph.D. Guidance (3+5)</u> 1. Mrs. K. Chithira , “Ultimate Load Behaviour of Circular CFT Columns with and without Shear Connectors.” Ph.D., Completed, 2012. 2. Mr. K. Senthil Kumar , “Effective Utilization of Electronic Plastic Waste as a Partial Replacement for Coarse Aggregate in Concrete”, Ph.D., Completed, 2015. 3. Mr. Cyril Thomas, A. “Behaviour of Thin-webbed Castellated Beams Strengthened using CFRP”, Ph.D., Thesis Submitted. 4. Mr. S. Sathiyaseelan , Static and Cyclic Behaviour of Precast wall to wall connection, Ph.D. (PT). on-going 5. Mr. Harikrishna, T. , “Optimization of the Plus I columns employed in Boiler supporting structures”, Ph.D.(PT), ongoing 6. Ms. Shruthi, S. , “Lateral Load Behaviour of Strengthened RCC Frames”, Ph.D., on-going 7. S. Kanchidurai. , “Strength Characteristics of Novel Mesh Embedment Technique for New Brick Construction with Least Expensive Material – Ph.D. (PT). on-going (Co-guide) 8. S. Sivakamasundari. , Shear Behaviour of Steel-concrete Composite Modular Beams, Ph.D. (PT). on-going <u>M.S. Guidance</u> 9. Ms. Radhika, K.S. , “Influence of Mineral Admixures on Bond Stress Characteristics of Circular Concrete Filled Steel Tubular Columns”, MS, Completed, 2013. 10. Mr. Harikrishna, T. , “Non-linear Behavior of Boiler Supporting Structure Designed with Circular CFT Columns and Steel Beams”, M.S, Completed, 2015.		
13.	List of M. Tech Thesis Guided		
<u>Number of P.G. Projects guided (42+3 Nos)</u>			
S.No.	Name of the Student	Title of Thesis	Year of Award
1	Ramesh Kumar, P	Evaluation of RC Framed Structure Retrofitted with X and Chevron type Steel Bracing	2008
2	Sasikala, M	Influence of flange stiffness and web imperfection on plate girder behaviour	2008
3	Rahmathinnisa, M	A study on behaviour of semi-rigid road safety barrier under Indian load conditions	2009
4	Sakthivel, V	Behaviour of Concrete Filled Tubes under Axial Loading	2009
5	Velmurugan	Experimental Investigation On Thin-Walled Circular CFT Column Made Using Cold Rolled Steel Plates	2010
6	Sureshkannan	Shear-Bond Characteristics (m-k) of Composite Slab made using Cold-formed Steel Sheets with Perforated Longitudinal Stiffeners,	2010
7	Mohammed Hashim	Dynamic Response Behaviour Of Multi-Legged Articulated Tower	2010
8	Madhavi, N	Damage Assessment for Rehabilitation in Skew Bridges	2010
9	Priya, S Natesh	Behaviour Of Plate Girder In Steel Frame Under Lateral Loads	2011
10	Bathrudeen Syed Ishak	Study on behaviour of Braced steel Frame with Aluminium shear link and Design of low yield strength steel shear link	2011
11	Ramakrishnan, S	Analysis Of Orthogonally Stiffened Plates Subjected To In-Plane Static And Lateral Dynamic Loads	2011
12	Sathiyaseelan, S	Stability Study Of Kirchhoff Plates Under Combined In-Plane Shear And Tensile Stresses	2011
13	Somasundaram, S	Study On Seismic Behaviour Of One Way Asymmetrical Buildings And Construction Of Response Spectra	2012
14	Rajendraprasad, K	Study On Behaviour Of Hyperbolic Cooling Tower Shell During Its Construction Stages	2012

15	Merin Sebastian	Non-Linear Behaviour Of Steel Frame With Aluminium Shear Panel	2012
16	Supriya	Evaluation Of Response Reduction Factor For RC Elevated Water Tank	2012
17	Yasir, V.P.	Experimental Study of Behaviour Of Steel Skew Bridge	2013
18	Resmi, G	Damage Assessment Of Laterally Restrained Steel Beams Using Elemental Frame Analysis	2013
19	Jeyashree, T.M.	Time Dependent Reliability Study For Reinforced Concrete Structural Elements Under Carbonation Attack	2013
20	Dhanya, J.	Analysis And Damage Assessment Of Skew Bridge	2013
21	Muthukumar, S.	Non-Linear Analysis Of Plate Girder Supported At Different Levels	2013
22	Honey Verma	Finite element simulation of Residual stresses and its effects on cover plated beam	2014
23	Siddhartha Kushwaga	Analysis of Steel-concrete composite Beam in Flexure	2014
24	Nitin Anand T	Impact behaviour of Steel-concrete-steel Sandwich slab	2014
25	Mandwe Hardik Sevakdas	Experimental analysis of steel skew bridge	2014
26	Arun, P V	Dynamic Response of Beams with web openings	2015
27	Kripanjith, V. P.	Lateral Torsional Buckling Behaviour of Single Angle Section	2015
28	Raja, K.	Lateral Load Behaviour of RCC Wall Panel Made Using Hips Aggregate	2015
29	Karthikeyan. A	Study on Concrete Filled Rectangular Tubular Flange Girder with web stiffeners	2015
30	Aarthy. E	Buckling Behaviour of Inelastic Castellated Beam	2016
31	Sadananda. H. I	Behaviour of Girder with Sinusoidal Corrugated Web	2016
32	Munukutla Sai Krishna	Cyclic Loading Effect on CFRP Strengthened RC Beams	2016
33	Shobana R	Non-Linear Behaviour of Castellated Beams	2016
34	Ruturaj Kundan Sawant	Non-Linear Behaviour of Girders with Horizontal Web Splice	2016
35	Meena Priya G	Influence of Minor Axis Flexural Stiffness on Major Axis Bending of Column	2017
36	Mali Rahul Shriram	Behaviour of Semi-Rigid Rad Safety Barrier Under IRC Loading	2017
37	Narsiram Gurjar	Energy Dissipation Characteristics of SCS Composite Panel	2017
38	Aditi Pingle	Non-Linear Behaviour of Steel Frame with Aluminum Shear-Link	2017
39	Aparna Sathyapalan	Behaviour of Horizontally Spliced Girders	2018
40	Mohamed Azharudheen. N	Strengthening of Reinforced Concrete Columns with External Steel Plate	2018
41	Anandu Aravind	Behaviour of Reinforced Concrete Frame Infilled with Ferrocement Wall Panel	2018
42	Jyothis Paul. E	Influence of CFRP Wrapping in the Dynamic Behaviour of Castellated Beams	2018
43	Nagaraju. M	Study of Buckling Restrained Brace Frame for Response Reduction Factor	2018
44	Wagh Shrikant. R	Energy Dissipation Mechanism of Retrofitted RC Frames	2018
<u>Number of P. G. Projects ongoing</u>			
45	Aketi Chanikya Chandramouli	A Study on Behaviour of CFS Innovative Corrugated Hollow Column under Compression	2019
46	J. Shajith Hussain	Behaviour of Cold-Formed Rectangular Hollow Section under Axial Compression and Eccentric Loading	2019
47	Gedela Bhargavi	Study of Aluminium beams under impact loading	2019

14.	Institute Level Activities	Period
	<ol style="list-style-type: none"> Head, Department of Civil Engineering Associate Dean (Admin., IIT Srirangam) Associate Dean (Planning & Development) Member, Estate Maintenance Committee Inspection had been made to many old quarters and repair works have been carried out. Member, Water Management Committee Geological survey carried out and seven bore wells made to meet the water requirement Member, Institute Day Committee Member, Convocation Day Committee Member, Supercritical Boiler Technology group Member, S2-MEMS-centre of excellence Member, Annual Sports Day Committee, 2012 Member, Books Recommendation Committee to Central Library 	<p>11.10.2017 to till date 27.07.2016 to 10.10.2017 10.10.2012 to Oct.2015 5/2008 - 12/2010, ~2.5yrs</p> <p>5/2008 - 12/2010, ~2.5yrs</p> <p>2008, 2009,2010,2011,2012 2007,2008, 2009 Since 2012 Since 2012 2010 2008</p>

15.	Department Level Activities	Period
	<ol style="list-style-type: none"> Program coordinator, M.Tech Structural Engineering Member, Department Administrative Council (DAC member) Member, Department Purchase Committee Department Node, TEQIP Phase-II Lab In-charge, Structural Engineering Lab Staff Advisor, Civil Engineering Association Chairman, M.Tech (TEM) 3rd Semester Chairman, M.Tech. (TEM) 4th Semester Chairman, B.Tech. 4th Semester DPEC Member for M.Tech (SE) Member, UG - NBA Committee Member, PG – NBA Committee Coordinator, Final Year UG Project Work 	<p>6/4/2015 to 10.10.2017 Since 7th Feb 2012. Since April 2011 to 10.10.2017 08/2007 to 10.10.2017 3-9-2010-to ~09/2012 2010, 2011 2010, 2011 2011-2012 2010, 2011 2009 ongoing 2007, 2008</p>

16.	Details of IT (Information Technology) Exposure / Computer skills
	<ol style="list-style-type: none"> Finite Element Software <i>ABAQUS, PATRAN, NASTRAN, SOLVIA, ANYSIS, ROBO V6, NISA and SESAM</i> Structural Design Software <i>SAP 2000, STADD-III, STAAD Pro</i> Drawing Aids <i>AutoCAD LT 2000I</i> Operating Systems <i>Windows, MS DOS, Unix</i> Languages <i>Fortran, basic, & Knowledge in C</i> Common Windows Applications <i>MS Word, MS Excel, MS Power point...etc.</i> Web page design & HTML code <i>MS Front Page.</i>

17. Visits Abroad and Nature of Assignment		
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

18. University Visits
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

19.	List additional short courses attended
1	International Workshop on “ Emerging Trends in Earthquake Engineering and Structural Dynamics ”, Organized by IIT Delhi, 20 th & 21 st 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 the support of NIT Warangal on 21 st March, 2014 at Chennai.
3	Advanced Course on Seismic Response Control and Damage Mitigation Methodologies for Buildings and Structures , from 19 th – 21 st February 2014 at SERC Taramani, Chennai - 600113
4	Advance Developments in Beams & Plate Theories and Structural Dynamics , 4 th – 6 th January 2014, MNIT Jaipur
5	Short Course on FEM, lectures by Prof. J.N.Reddy , Texas A&M, at IIT Hyderabad, India during 19-21 st 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, 24 th January 2009
11	“Two day workshop on IS800-2007,” Jointly organized by INSDAG and IITM, 27 th & 28 th August 2008.

	<p>12 Workshop on Background to the Limit State Design of Cold formed steel members, Structural Engineering Research Centre, Taramani, Chennai, 17th December, 2007.</p> <p>13 Ansys Training Program, Organized by NIT Trichy under Faculty Development Program. Conducted by ACTIVE Bangalore, July 4-13, 2007, NIT Trichy.</p> <p>14 Course on Structural Analysis – Modern Methods held under Anna University Faculty Development Program, 20th November to 2nd December 2006, VLB Janakiammal Engg. College.</p> <p>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.</p> <p>16 Failure modes, effect and criticality analysis, conducted by DNV (KL) and PRSS, KL, Malaysia. 24th May 2005.</p> <p>17 Three days training program on ISO-9001 – 2000. Conducted at Perisai Petroleum Tech, KL</p> <p>18 Finite Element Modeling of Composite Materials, conducted by MSC Software and Petronas Research & Scientific Services (PRSS), Kuala Lumpur, Malaysia, 2003</p> <p>19 Seismic Design of Reinforced Concrete Buildings, conducted by IIT Kanpur, July 7th to 9th, 1997, Course co-coordinator Prof. Sudhir K. Jain</p> <p>20 Course on Tower crane, its Applications and Installations, Conducted by Project Manager, L&T Cement factory construction site at Gujarat, 1997.</p> <p>21 Detailing for Multi storeyed R.C.C Framed Structures, conducted by Building Technology Centre, Anna University, Chennai.</p> <p>22 AutoCAD and its Application. Annamalai University, Chidambaram, 1994.</p> <p>23 Certificate Course on Computer Programming, Annamalai University, 1989</p>
20.	Special Programs attended
	<p>1. Seven Habits of Highly Effective People – Signature program, NIT Trichy, December 21-23, 2009</p> <p>2. Professional Development Training (PDT) under TEQIP-III at Indian Institute of Management Raipur, 11-15 February 2019.</p>
21.	Conference/Workshop/Seminar Organized
	<p>1. Coordinator, “Two Days Short Course on Advancement in Concrete Technology”, 27th & 28th March 2015, at NIT Trichy, Self-supported course.</p> <p>2. 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).</p> <p>3. 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</p> <p>4. Coordinator, “Moments’12 – National Level Technical Symposium”, organized by Civil Engineering Association, NITT, 3rd and 4th March 2012</p> <p>5. Coordinator, “Inauguration of Indian Green Building Council – NITT Student Chapter”, organized by Civil Engineering Association, NITT, March 2012</p> <p>6. 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.</p> <p>7. Coordinator, “NITT-BHEL 40 Hours Course on Limit State Design of Steel Structures” to Engineers at BHEL Trichy, 2011</p> <p>8. 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.</p> <p>9. 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.</p> <p>10. 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</p> <p>11. 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.</p>

	<p>12. Coordinator, “Moments’11 – National Level Technical Symposium”, organized by Civil Engineering Association, NITT, 5th & 6th Feb. 2011</p> <p>13. Coordinator, “National Education Day – Panel Discussion on Academic Reforms”, NIT, Trichy. 10th November, 2009</p> <p>14. Coordinator, “Two-day workshop on Advances in Steel Structural Design and Applications”, TEQIP-I, National Institute of Technology, Trichy-15, 19th & 20th Dec.2007.</p> <p>15. Coordinator, “One-day workshop on “Geotechnical Investigation and Decision making in foundations””, TEQIP-I, National Institute of Technology, Trichy-15, 23rd October 2007.</p> <p>16. Coordinator, “National Conference on Earthquake and Transportation Engineering, NCETE’07”, Sona College of Technology, Salem during 22nd and 23rd of March 2007.</p>
22.	Recently Involved Research & Consultancy Projects
	<p>1. Research Project - Completed</p> <ol style="list-style-type: none"> 1. NITT-BHEL Joint Project on “Analysis and Design of Horizontally Spliced Steel Girders”, Research Project Value of INR7.7Lakhs 2. 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 <p>2. Consultancy Projects Industry sponsored Projects</p> <ol style="list-style-type: none"> 1. PWD High level Bridge Design Across Maruthaiyar River – 2.48lakhs 2. Vetting of JT-2 Modification work – Thiraviam Engineering Pvt Ltd, Tutucorin – 1.77lakhs 3. Water tank design – Needamangalam – 0.295lakhs 4. Chemin C&I, Proof Checking of industrial building in BHEL Gujarat – 0.354 lakhs 5. Stability Analysis of St. Joseph College Admin Building – 0.575 lakhs 6. Vetting of Structural Design and Drawings for Student Amenity Centr and Central University Thiruvavarur – 1.18lakhs 7. Mukesh & Associates, Salem, Vetting of Structural Design and Drawings for Augmentation of Infrastructure and Facilities at Indian Naval Academy (Phase - II works) Ezhimala, Kerala - ~6.00lakhs 8. Vetting of Structural Design and Drawings for SMF, NDDDB Diary Plant and Powder Plant – 2.36lakhs 9. Proof Checking of Structural Design and Drawings dor the Project on Construction of Flyover at Thuckalay, NH47 - 7.08Lakhs 10. Investigation Report on Gaja Cyclone Affected BSNL Towers At Thanjavur, Nagapattinam And Tiruvarur Districts, The Executive Engineering, BSNL, Thanjavur (0.59 Lakhs) 11. Tamilnadu Civil Supply Corporation, Development of Large Godowns at Kovilpathu, Nagai District – 10lakhs, ongoing, 2015 12. PTK Associates, Chennai, Proof checking of Design for the Dailmer (India) Bus plant at Oragadom, Chennai – 3.5 lakhs, ongoing. 13. Structural Stability investigation for Dalmia Cements , Dalmiyapuram, 2013 – 5lakhs 14. 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, Consultancy Value: INR 3.25 Lakhs, 2011 15. AAI Trichy Design of Quarters - ~6.00lakhs 16. Ramco Cements – Stability analysis of Fire affected conveyor tunner – 1.12lakhs 17. Study, Repair and Rehabilitation of Molasses Tank, Trichy Distillaries, Trichy, 2008 18. Rebar Locator Test and other NDT Testing and consultancy for Railway Electrification work between Trichy Madurai Electrification Project, Southern Railway, Trichy, 2009 19. Design verification an failure investigation on SICAL Conveyor System at Manali Port, Chennai, Client: Sun Engineering, Trichy, 2011 20. Structural Stability investigation for Line-1 and Line-2 Silo’s in Chettinad Cements, Ariyalur works, Tamil Nadu, 2011 21. Structural Stability investigation for Aavin Milk Unit at Pudukkottai, Tamil Nadu, 2011 22. Many more miscellaneous designs and vetting for small projects for various clients

	<p>Other consultancy Projects</p> <ol style="list-style-type: none"> 1. Soil investigation and Structural Design for construction Overhead water tank for Arumbavur Town Panchayat, Perambalur District, 2013 2. Study on Crushed Stone/Sand as Coarse Aggregate and Fine Aggregate for Chettinad Cements, Karikali works, Karur, 2012 3. Soil investigation and Structural Design for construction Overhead water tank for Aranthangi Municipality, 2012 4. Soil investigation and Structural Design for construction Gasifier Crematorium for Aranthangi Municipality, 2012 5. Soil Investigation for RMSA Schools in Ariyalur district, 2011 6. Structural design of Two Pump Rooms and Generator Room at Keechankuppam and Savariar Kovil, Tsunami Projects, Nagai District, Tamil Nadu, 2010 7. Soil Investigation for Community Hall at Thuraiyur, Trichy District, Tamil Nadu, 2009 8. Structural Stability investigation for TAHDCO – Adhi dravidar Girls Hostel at Kurumbalur, Perambalur District, Tamil Nadu, 2009 9. Soil Investigation for Bridges at Nannilam Panchayat, Bridge across Thirumalairajan river in Kothavasal, Nagai District, Tamil Nadu, 2009 10. Soil Investigation and Structural Design for construction of School Building at Senthannirpuram, Trichy Corporation, Trichy, Tamil Nadu, 2009 11. Soil Investigation for construction of School Building at Sengulam Colony, Trichy Corporation, Trichy, Tamil Nadu, 2008 12. Soil Investigation for Bridges at various places such as Nalankottai, Anniyur, Vadavar, Perumpanniyur, Nagai District, Tamil Nadu, 2008 13. Stability investigation of Hotel Puppy's Inn at Rameswaram, 2008. 14. Soil Investigation and Structural Design for Municipality Office Building at Manapparai, Tamil Nadu, 2008 15. Design of Formwork staging for Madhucon for NH projects. 2008 16. Inspection and certification of construction of Government School site at Ariyamangalam, 2008 17. Soil investigation for General Hospital for Krishnapuram and Veppore in Perambalur District, 2008 18. Soil investigation for Tsunami Housing at Tondi-Mandapam-Keelakarai-Rameswaram, 2008 19. Soil Investigation and structural design for Lalapettai Police Station, Tamil Nadu, 2007 20. Soil Investigation and Foundation Design for Nagai Tsunami Housing, 2007 21. Soil Investigation and Structural Design for Community Hall at Nannilam, Nagapattinam District, Tamil Nadu, 2007
23.	Industry – Institute Interaction
	<ol style="list-style-type: none"> 1. Industrial Visit to TNCSC Project at Velankanni 2. Industrial Visit to Daimler India Commercial Vehicle Pvt Ltd at Oragadam Chennai on 19th March 2015. Accompanied with 80 B.Tech 3rd Year Students. 3. Industrial Visit to BHEL Tirumayam, 2013 4. Industrial Visit to BHEL Trichy. 2012
24.	Awards, Honors and Outreach Activities
	<ol style="list-style-type: none"> 1. Reviewer in many national and international journals including Elsevier Journals. 2. 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. 3. 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. 4. Member, BoS, Anna University Chennai 5. Member, BoS, JNTU Ananthapur, AP 6. Member, BoS, Pondicherry Engineering College (PEC), Pondicherry 7. Member, BoS, PSG Tech., Coimbatore 8. Member, BoS, Vellore Institute of Technology (VIT) Vellore

	9. Member, BoS, ICFAI, Hyderabad, TS 10. Member, BoS, KSR College of Engineering, Tiruchengode 11. Member, BoS, Nanda Engineering College, Erode 12. Member, Academic Audit, Anna University, Chennai 13. Member, Academic Audit, Kalasalingam University 14. Member, Evaluation Committee Member, Swayam Course development at CIT Coimbatore 15. Member, Doctoral Committee, Anna University – for many students 16. Member, Doctoral Committee, PSG Tech, Covai, CIT Covai, TCE Madurai 17. Member, Doctoral Committee, GCE Salem, GCT Covai 18. Member, Institute level Advisory Board, Gnanamani College of Technology
25.	Academic projects
	Project - 1: Ultimate Strength of Composite Plate Girders (Ph.D. Thesis work) Project - 2: Non Linear Dynamic Response of Two Hinged Articulated Tower (M.E. Thesis work) Project - 3: Analysis and Design of Prefabricated Building System for University Staff Quarters (B.E.)
26.	Extra-curricular activities
	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.
27.	I solemnly declare that the information given above are true to the best of my knowledge. Place : Date : <div style="text-align: right;">Signature of the Applicant</div>

Last updated on 27.03.2019