

National Institute of Technology, Tiruchirappalli:

Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile:

Dr. K. Baskar is presently working as an Associate Professor in the Department of Civil Engineering, National Institute of Technology, Tiruchirappalli, Tamilnadu, India. Obtained his B.E (1994) from Annamalai University and M.E (1996) from College of Engineering, Guindy Anna University, Chennai, and obtained his Ph.D. degree from National University of Singapore, Singapore. He obtained “First class with Distinction” grade for both UG and PG degrees. He has published 30 papers in refereed international journals (with SCI) and more than 30 international conference papers (with Scopus). As per the Google scholar, he has 266 citations, h-index as 6 overall and i10-index as 4.

Joined as Directly recruited Assistant Professor (5th pay) during May 2007 at NIT Trichy and become Associate Professor during May 2010. He is part of administration from 2007 holding various positions such as Member, Estate Maintenance Committee (2008-2010), Estate Water Management Committee, Associate Dean, P&D (2012-2015), TEQIP Departmental Node (Since 2011), presently Associate Dean, Admin (IIITT(S)), and many more positions at Institute level and department lever as detailed in the below attached resume.

At the institute level, he has taken active participation in many different infrastructural development projects such as SIF Lab (Sophisticate Instrument Facility Lab), Modification of BARN Hall, utilizations of waste water through proper distribution network for gardening purpose, de-silting of lake for proper water storage, renovation of Special Guest Rooms in New Guest house ground floor, development of heli-pad, new water distribution and drainage system in many places, installation of MIG aircraft, multipurpose auditorium covered pathways in ladies hostel and gents hostel zone, walker’s friendly pathway in the main avenue road, and etc...

At the department level, modernized the structural engineering laboratory with purchase, installation and commissioning of 200ton capacity column testing frame, 8m span flexural testing facility, 5ton capacity cyclic load testing facility, new 100ton UTM, 5ton capacity Gantry Girder for large scale testing, 1D and 3D accelerometers, LVDTs, NI Data Acquisition system for high sampling rate for dynamic characterization of structural Elements. Presently, this structural engineering research lab is widely used by Ph.D. and PG students to the maximum extent.

He is the program coordinator for M.Tech Structural Engineering. Curriculum and syllabus is updated very frequently through appropriate Board of Studies. He has guided 2 PhDs, 2 MS and 34 M.Tech. Thesis and, presently guiding 7 PhDs, 2 M.S and 4 M.Tech Scholars. He has travelled many countries including USA, Singapore, Malaysia, Japan, Australia, Vietnam and many universities abroad. He is a member of many professional bodies such as Institution of Engineers, Indian Association for Structural Engineering, Indian Association for Computational Mechanics, Indian Society for Wind Engineering, Indian Geotechnical Society and Indian Society for Technical Education.

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1. Name: **Dr. K. Baskar**
2. Designation: Associate Professor
3. Office Address: Department of Civil Engineering, NITT
4. Telephone (Direct) (Optional): 0431-2503161
- Telephone : Extn (Optional): Extn:3161
- Mobile (Optional): 9790180736
5. Email (Primary): kbaskar@nitt.edu Email (Secondary) : drkbaskar@yahoo.co.in
6. Field(s) of Specialization: Structural Engineering
7. Employment Profile

Job Title	Employer	From	To
Design Engineer – Supervisory cadre – A	Larsen & Toubro Ltd, ECC-EDC Headquarters, Chennai, India	April 1996	May 1998
Industry/Structural Engineer	Det Norske Veritas Pte Ltd, Singapore	January 2002	December 2003
Manager, Research & Development Unit	Perisai Petroleum Technology Bhd, Corro-Shield (M) Sdn Bhd, Malaysia	January 2004	January 2006
Adjunct Faculty	University Technology Petronas, Malaysia	One semester	
Professor	Sona College of Technology, Salem, India Dept. of Civil Engineering	February 2006	15 th May 2007
Assistant Professor	National Institute of Technology, Trichy – 15.	16.05 2007	15.05.2010
Associate Professor	Dept of Civil Engineering	16.05.2010 onwards	

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	National University of Singapore, Singapore	2003	NA	Civil Engineering

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M.E.	Anna University, Chennai, India	1996	First class with Distinction (86%)	Structural Engineering
B.E.	Annamalai University, Annamalai Nagar, India	1994	First class with Distinction (81%)	Civil & Structural Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/ Institution	From	To
Associate Dean	Administration, IIIT(S)	27.07.2016	Till date
Associate Dean	Planning & Development	Oct.2012	Oct.2015
Department Node	TEQIP Phase-I & II	April 2011	Till date
Program coordinator	M.Tech Structural Engineering	06 th April 2015	Till date
Member	Estate Maintenance Committee	May.2008	Dec.2010
Member	Water Management Committee	May.2008	Dec.2010
Member	Institute Day Committee	2008 onwards	
Member	Convocation Day Committee	2007 onwards	
Member	S ² -MEMS-centre of excellence	2012	Till date
Member	Supercritical Boiler Technology group	2012	Till date
Member	Annual Sports Day Committee	2010	-
Member	Books Recommendation Committee to Central Library	2008	-
Member	Department Administrative Council (DAC member)	7 th Feb 2012	Till date
Member	Department Purchase Committee		Till date
Lab In-charge	Structural Engineering Lab	August 2007	Till date
Staff Advisor	Civil Engineering Association	Sep 2010	Till date
Chairman	M.Tech (TEM) 3 rd Semester	2010	2011
Chairman	M.Tech (TEM) 4 th Semester	2010	2011
Chairman	B.Tech 4 th Semester	2011	2012
DPEC Member	M.Tech (SE)	2010	2011
Member	UG - NBA Committee	2009	-
Member	PG – NBA Committee	ongoing	-
Coordinator	Final Year UG Project Work	2007	2008

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Associate Dean (Admin.)	IIT, Srirangam	27.07.2016	Till date
Member, BoS	Anna University, Chennai	2016 onwards	-
Member, BoS	ICFAI University, Hyderabad	2011 onwards	-
Member, Curriculum Auditing	Bannari Amman Institute of Technology, Sathiyamangalam	-	-
Member, Academic	Kalasalingam University,	-	-

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Auditing	Tamil Nadu		
Member, Academic Auditing	Thiyagarajar College of Engineering Madurai	-	-

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
1994-1995	GATE Scholarship	MHRD	1994	12/1995
1998-2003	Singapore Government Fellowship	Government of Singapore	7/1998	12/2001

13. Details of Academic Work

(i) Curriculum Development

a. Introduction of course on “

(ii) Courses taught at Postgraduate and Undergraduate levels

a. PG Level

- i. Structural Dynamics
- ii. Finite Element Methods
- iii. Advanced Steel-concrete Composite structures
- iv. Advanced Steel Structures
- v. Seismic Design of Structures
- vi. Prefabricated Structures

b. UG Level

- i. Structural Analysis-II
- ii. Steel Structures-I
- iii. Steel Structures-II
- iv. Matrix Methods of Structural Analysis
- v. Earthquake Resistant Structures
- vi. Steel-concrete Composite Structures

(iii) Projects guided at Postgraduate level

In total – 34 projects guided at PG level

(iv) Other contribution(s)

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14. Details of Major R&D Projects

1. Research Project - Completed

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 INR7.7Lakhs**

2. Consultancy Projects

Industry sponsored Projects

1. Infrastructural Development for Naval Base, Ezhilmala, Kerala, 5 lakhs, on going
2. Tamilnadu Civil Supply Corporation, Development of Large Godowns at Kovilpathu, Nagai District – 10lakhs, 2015
3. PTK Associates, Chennai, Proof checking of Design for the Dailmer (India) Bus plant at Oragadam, Chennai – 3.5 lakhs, ongoing.
4. Structural Stability investigation for Dalmia Cements , Dalmiyapuram, 2013 – 5lakhs
5. 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
6. Study, Repair and Rehabilitation of Molasses Tank, Trichy Distilleries, Trichy, 2008
7. Rebar Locater Test and other NDT Testing and consultancy for Railway Electrification work between Trichy Madurai Electrification Project, Southern Railway, Trichy, 2009
8. Design verification an failure investigation on SICAL Conveyor System at Manali Port, Chennai, Client: Sun Engineering, Trichy, 2011
9. Structural Stability investigation for Line-1 and Line-2 Silo’s in Chettinad Cements, Ariyalur works, Tamil Nadu, 2011
10. 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, 2008
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

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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

15. Number of PhDs guided

Sl.No	Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
1	Mrs. K. Chithira	Ultimate Load Behaviour of Circular CFT Columns with and without Shear Connectors	Supervisor	2012
2	Mr. K. Senthil Kumar	Effective Utilization of E-Waste Plastics in Structural Concrete	Supervisor	2015
3	Mr. Cyril Thomas	Ultimate Load Behavior and Dynamic Response of FRP strengthened thin walled Castellated Beams	Supervisor	Ongoing
4	Mr. S. Sathiyaseelan	Non-linear Behavior of Joints in Prefabricated Structure	Supervisor	Ongoing
5	Ms. Vinothini	Damping Characteristics of Steel-concrete Composite Structure	Supervisor	Ongoing
6	Mr. Harikrishna	Dynamic Analysis of Steel-concrete Composite Members	Supervisor	Ongoing
7	Ms. Shruthi	Seismic Behavior of Frame with Low Yield Metal shear link	Supervisor	Ongoing
8	Remya Ratnan	Seismic Behavior of Frame with Friction Damper	Co-supervisor	Ongoing
9	Kanchi Durai	Retrofitting of Machine Foundation	Co-supervisor	Ongoing

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International / National/ Local)	Role (Participant/ Speaker/ Chairperson , Paper presenter, Any other)	Event Organized by	Venue
1. 20 th & 21 st December 2014	Emerging Trends in Earthquake Engineering and Structural Dynamics	International Workshop		IIT Delhi	Delhi
2. 21 st March, 2014	Project Management Education at National Institutes of Technology (NITs)			L&T Institute of Project Management, Chennai	Chennai
3. 19 th – 21 st February 2014	Advanced Course on Seismic Response Control and Damage Mitigation Methodologies for Buildings and Structures			SERC Taramani	Chennai - 600113
4. 4 th – 6 th January 2014	Advance Developments in Beams & Plate Theories and Structural Dynamics			MNIT Jaipur	Jaipur
5. 19-21 st December, 2012	Short Course on FEM, lectures by Prof. J.N.Reddy			Texas A&M	IIT Hyderabad, India
6. 15-17, December 2010	First Indo-US workshop on Forensic Engineering			Department of Civil Engineering	NIT, Trichy, India
7. 3-5, Dec. 2010	Workshop cum Training Course on Introduction to Seismic and Wind Resistant			CBRI-ISWE, CSIR Centre	New Delhi,

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	Structures				
8. 6-8, Dec. 2010	International Advance School in Wind Engineering			CBRI-ISWE- Tokyo polytechnic University, Japan, CSIR Centre	New Delhi
9. February 6-7, 2009	Workshop on Deepwater Offshore Structures			Department of Ocean Engineering, Indian Institute of Technology, Chennai-36	Indian Institute of Technology, Chennai-36
10. 24 th January 2009	Workshop on National Building Code of India 2005			The Institution of Engineering (India) and Bureau of Indian Standards	NITT Campus
11. 27 th &28 th August 2008	Two day workshop on IS800-2007			INSDAG and IITM	
12. 17 th December, 2007	Workshop on Background to the Limit State Design of Cold formed steel members			Structural Engineering Research Centre, Taramani, Chennai	Chennai
13. July 4- 13, 2007	Ansys Training Program			NIT Trichy under Faculty Development Program conducted by ACTIVE Bangalore	NIT Trichy
14. 20 th November to 2 nd	Structural Analysis – Modern Methods			Anna University Faculty Development	VLB Janakiamma 1 Engg.

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December 2006				Program	College
15. October 14-18, 2006	Non-Linear Seismic Analysis of Structures			IIT Kanpur, Course coordinator: Prof. C V R Murthy, Prof. D C Roy and Prof Sudhir K Jain	IIT Kanpur
16. 24 th May 2005.	Failure modes, effect and criticality analysis			DNV (KL) and PRSS, KL, Malaysia.	Malaysia
17.	Three days training program on ISO-9001 – 2000			Perisai Petroleum Tech, KL	
18. 2003	Finite Element Modeling of Composite Materials			MSC Software and Petronas Research & Scientific Services (PRSS)	Kuala Lumpur, Malaysia
19. July 7th to 9th, 1997	Seismic Design of Reinforced Concrete Buildings			IIT Kanpur, Course co-coordinator Prof. Sudhir K. Jain	IIT Kanpur
20. 1997	Course on Tower crane, its Applications and Installations			Project Manager, L&T Cement factory construction site	Gujarat
21.	Detailing for Multi storeyed R.C.C Framed Structures			Building Technology Centre, Anna University	Chennai.
22. 1994	AutoCAD and its Application			Annamalai University	Chidambaram
23. 1989	Certificate Course on Computer Programming			Annamalai University	
24. December 21-23, 2009	Seven Habits of Highly Effective People			Signature program	NIT Trichy

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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
1. Two Days Short Course on Advancement in Concrete Technology	Local	27 th & 28 th March 2015	Coordinator	NIT Trichy
2. Two Days Short Course on Introduction to Finite Element Method and its Applications, Self Supported Course in Association with Indian Association for Computational Mechanics (IndACM).	Local	23 rd & 24 th January 2015	Coordinator	NIT Trichy
3. 3-Day Short Course on Finite Element Method Lectured by Professor J N Reddy	National	21 st to 23 rd March 2013	Coordinator	Texas A&M University, USA
4. Moments'12 – National Level Technical Symposium	National	3 rd and 4 th March 2012	Coordinator	Civil Engineering Association, NITT
5. Inauguration of Indian Green Building Council – NITT Student Chapter	Local	March 2012	Coordinator	Civil Engineering Association, NITT
6. One week short-term course on Introduction to Forensic Engineering	Local	9-13 th January 2012	Coordinator	CEA, NITT and University of North Carolina, Charlotte, USA
7.NITT-BHEL 40 Hours Course on Limit State Design of Steel Structures	Local	2011	Coordinator	BHEL Trichy
8. Six Days Workshop cum Training Program on Design, Construction, Quality Control and Maintenance of Bridges	Local	8-13 February, 2010	Coordinator	Department of Rural Development Authorities, Government of Tamil Nadu

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9. Six Days Workshop cum Training Program on Design, Construction, Quality Control and Maintenance of Bridges	Local	31 st May – 5 th June, 2010	Coordinator	Department of Rural Development Authorities, Government of Tamil Nadu
10. Six Days Workshop cum Training Program on Design, Construction, Quality Control and Maintenance of Bridges	Local	28 th June – 3 rd July, 2010	Coordinator,	Rural Development Authorities, Government of Tamil Nadu.
11. Six Days Workshop cum Training Program on Design, Construction, Quality Control and Maintenance of Bridges	Local	-	Coordinator	Rural Development Authorities, Government of Tamil Nadu.
12. Moments'11 – National Level Technical Symposium	National	5 th & 6 th Feb. 2011	Coordinator	Civil Engineering Association, NITT
13. National Education Day – Panel Discussion on Academic Reforms	Local	10 th November, 2009	Coordinator	NIT, Trichy
14. Two day workshop on Advances in Steel Structural Design and Applications	Local	20 th Dec.2007	Coordinator	TEQIP-I, National Institute of Technology, Trichy-15
15. One day workshop on Geotechnical Investigation and Decision making in foundations	Local	23 rd October 2007	Coordinator	TEQIP-I, National Institute of Technology, Trichy-15
16. National Conference on Earthquake and Transportation Engineering, NCETE'07"	Local	22 nd and 23 rd March 2007.	Coordinator	Sona College of Technology, Salem

18. Invited Talks delivered

Topic	Date	Inviting Organization
1.Developments in Steel Construction	2 nd September, 2016	Shanmuganathan Engineering College, Pudukkottai
2. Modern Trends in Steel Structures	22 nd September 2015	Annai College of Engineering, Kumabakonam
3. Opportunities in Civil Engineering	4 th September 2015	Ponnaiyah Ramajam College of

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		Engineering and Technology, Tanjore CARE School of Engineering, Trichy-9
4. IS code provisions on Precast Construction	4 th February 2015	
5. Comparative Study on Response of Boiler Supporting Structure Designed Using Structural Steel I-Columns and Concrete Filled Square Steel Tubular Columns	22 nd December 2014	Indian Institute of Technology Delhi
6. Design of Pre-stressed Concrete Cylindrical Tanks and Pipes	20 th August 2014	CARE School of Engineering, Trichy-9
7. Opportunities in Civil Engineering	9 th August, 2014	Shanmuganathan Engineering College, Arasampatti, Pudokottai District
8. Durability, assessment and repairing of RCC structures	14 th July 2014	ISTE-SRM sponsored Faculty Development Program at Paavai Engineering College, Namakkal
9. ANALYSIS AND DESIGN OF PLATE GIRDER According to IS800:2007	09 th November 2013	Faculty Development Program at Coimbatore Institute of Technology
10. DESIGN OF BEAMS According to IS800:2007	09 th November 2013	Faculty Development Program at Coimbatore Institute of Technology
11. IS Code Provisions and Seismic Analysis of Precast Concrete Construction	9 th October 2013	CARE School of Engineering, Trichy
12. Introduction to LSD Method for Steel Structures	15 th & 16 th February 2013	Oxford Engineering College
13. Offshore Structures	2012	NSK college, Nagercoil
14. Steel Structures	2012	PSR College of Engineering Sivakasi
15. Introduction to Finite Element Methods	2&3 rd March 2012	Two Day Workshop on Finite Element Analysis using Ansys, Oxford Engineering College
16. Introduction of Steel Structures in Offshore construction	2012	Civil Engineering Association, National Institute of Technology, Trichy
17. Revised Code Provisions and Design of Steel Girders	26 th December, 2011	Faculty Development Programme , KPR College of Engineering
18. Modern Construction using Steel-concrete Composite Structural elements	26 th July, 2011	The Institution of Engineers (India), Tiruchirappalli Local Centre, Tiruchirappalli – 620 014

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19. Design of Plate Girders and Gantry Girders	28 th Nov. to 3 rd Dec.2011	Faculty Development Programme , Anna University, Chennai
20. Design of Composite Beams and Shear Connectors	22 nd March, 2011	Workshop of Steel-concrete composite structures, Anna University, Chennai
21. Seismic Design of Structures	2 nd March 2011	Department of Civil Engineering, M.I.E.T. Engineering College, Tiruchirappalli, Tamil Nadu, India
22. Fundamentals of Seismic Resistant Design	28 th January 2010	Department of Civil Engineering, Melmaruvathur Athi Parasakthi Engineering College, Melmaruvathur, Tamil Nadu, India
23. Advances in Structural Engineering – An Insight in to Offshore Engineering”, Presented at Indian Engineering College	1 st October 2009	Vadakkankulam ,Tamil Nadu, India
24. Earthquake Engineering and Construction Practices	2 nd September 2009	Periyar Maniammai University, Vallam, Tanjore, Tamil Nadu, India
25. Design and construction of seismic resistant structures	25-26 August, 2008	Two day training program, State Bank of India, Tiruchirappalli
26. Steel structures in offshore construction	5 th August 2008	The Institution of Engineers (India), Tiruchirappalli Local Centre, Tiruchirappalli – 620 014
27. Seismic evaluation of existing multi-storeyed building	,26 th April 2008	National workshop on Seismic Resistant Design and Construction Practices, Department of Structural Engineering, Annamalai University, Annamalai Nagar, Chidambaram
28. Trends in Modern Steel Construction	19 th & 20 th Dec.2008	National level conference on Failure Studies and Remedial Measures., KSR College of Engineering
29. Reinforcement detailing for seismic resistant structures	7 th February 2007	State level technical seminar, THIAGCIVIL-2K7, Thiagarajar polytechnic college, Salem
30. IS456 – 2000 for Concrete: General Design Consideration and Special Design Requirements for Structural Members	-	3 days training program conducted for Tamil Nadu Electricity Board engineers at Training and Development institute at TNEB Kuthiraikkalmedu, Bhavani TK, Tamil Nadu, India.
31. Analysis and Design of Cable Stayed Bridges	-	Anna University, India
32. Failure Investigation on Jack-up Rig leg structure.	-	Ocean Engineering Centre, IIT, Chennai, India

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33. Repairing of Corroded Risers and Riser Bends	-	Ocean Engineering Centre, IIT, Chennai, India
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19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
1. Life Member	The Institution of Engineers (India) (M.I.E.).	M132730/5
2. Life Member	Indian Association for Structural Engineering (M.I.A.S.E.)	-
3. Life Member	Indian Association for Computational Mechanics (M.Ind.A.C.M.)	-
4. Life Member	Indian Society for Wind Engineering (M.I.S.W.E.)	-
5. Life Member	Indian Society for Technical Education (M.I.S.T.E.)	LM50381
6. Life Member	Indian Geotechnical Society (M.I.G.S.)	-
7. Member	Malaysian Structural Steel Association. (M.M.S.S.A.)	-

20. Academic Foreign Visits

Country	Duration of Visit	Programme
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.
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
Vietnam	4 days visit in 2003	To investigate a structural failure due to adjacent earth work excavations.

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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.
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21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
1. Baskar, K, Shanmugam, N E, and Thevendran, V	Finite element analysis of steel-concrete composite plate girder	Journal of Structural Engineering, ASCE	Volume 128	1158-1168	2002	-
2. 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	531-557	2003	-
3. Shanmugam, N E and Baskar, K	Steel-concrete Composite Plate Girders Subject to Shear Loading	Journal of Structural Engineering, ASCE	Volume 129	1230-1242	2003	-
4. 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	1-14	2006	0.933
5. 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	123-140	May 2008	-
6. 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	Vol.39, No.3	57-72	September 2009	-

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		National group (IABSE_ING)				
7. 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	Vol.1, Issue 1	1-15	August 2011	-
8. 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	86-116	August 2011	-
9. 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	2249-4723	Nov. 2012	-
10. 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	1-8	2012	-
11. 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	Vol.6., No.1	170-177	Feb.2013	0.042
12. Madhavi, N., Baskar, K. , Natarajan, C.	Influence of Skew Angle in the Design of Grids	Journal of Indian Highways	-	57-65	May 2013	-

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and Rajaraman, A.R.						
13. Resmi, G. and Baskar, K	Damage Assessment of Laterally Restrained Steel Beams using Dynamic Response	Journal of Applied Research	Vol.1, Issue.1	30-36	May 2013	-
14. 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	51-74	June 2013	-
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	0.933
16. Suresh Kannan, G., Premalatha, P.V. and Baskar, K.	Behaviour of Composite Deck Slab made using steel sheets with perforated stiffeners	Journal of Bridge and Structural Engineers, An Ing-IABSE	Vol.44., No.3	137-147	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 (Online): 2319-7064	Vol.3., Issue 8	1254-1259	August 2014	-
18. Senthil Kumar, K. and Baskar, K	Preliminary study on concrete with mixed electronic plastic waste	The International Reviewer	-	-	June 2014	-
19. Senthil Kumar, K. and Baskar, K	Response Surfaces for Fresh and Hardened Properties of Concrete with E-Plastic Waste (HIPS)	International Journal of Waste management, Hindawi Publications	Vol.201 4, Article ID 517219	-	2014	-
20. Senthil Kumar, K and Baskar, K	Shear Strength of Concrete with E-plastic (HIPS)	Proceedings of Institution of Civil	Vol.168, Issue CM2	53-56	April 2015	-

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		Engineers – Construction Materials, UK				
21. 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, DOI 10.1007/s10163-014-0303-5	Vol.17, No.4	718-724	2015	Thompson and Reuters Impact Factor 0.831
22. Senthil Kumar, K. and Baskar, K	Development of Ecofriendly Concrete Incorporating Recycled High-Impact Polystyrene from Hazardous Electronic Waste	ASCE Jl. of Hazard. Toxic Radioactive Waste	Vol.19 Issue 3, 0401404 2	-	July 2015	-
23. Madhavi, N and Baskar. K.	Numerical Study on Variation in Support Reaction of Skewed Bridges	Journal of Structural Engineering, SERC	Vol.37, No.6	397-402	February-March, 2011	-
24. 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	169-179	Feb.2012	Scopus Journal Rating, SJR 0.15, CSIR-NISCAIR-INDIA Impact Factor 0.042
25. K. Baskar ¹ , R. Anandapadman abhan ² , M. Anand ³ and V. Dwarakesh ⁴	Tensile Capacity of Corroded Steel Section Strengthened using Fiber Composite Wrap	Journal of Construction Engineering, Technology and Management	Vol.2, Issue 1	14-25	April 2012	-
26. 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 Factor0.766

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27. 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	792-801	Aug.2012	Scopus Journal Rating, SJR 0.15, CSIR-NISCAIR-INDIA Impact Factor 0.042
28. Senthilkumar, K., Gandhimathi, R and Baskar, K.,	Assessment of Heavy Metals in Leachate of Concrete Made with E-plastic Waste	Advances in Civil Engineering Materials, ASTM standards, USA	In press ,Vol.5, No.1		2016	-
29. K, Senthil kumar, Premalatha, P.V., Baskar, K., Sankaran Pillai, G. and Shahul Hameed, P	Assessment of Radioactivity In Concrete Made With E-Waste Plastic	In Press, Journal of Testing and Evaluation, ASTM Standards, USA			2016	-
30. 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)		1-5.	2016	SCI - Impact factor 2015 - 0.471

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
1. Nagamani, K and Baskar, K.	Non-linear dynamic response of two hinged articulated tower	International Conference in Ocean Engineering, COE'96	119-123		IIT, Chennai, India	1996
2. Baskar, K, 2. 2. Shanmugam, N E and Thevendran, V	Finite element modeling of steel-concrete composite plate girder	Proceedings of APCOM '99, Fourth Asia-Pacific Conference on Computational Mechanics	Vol-1,105-110	Computational Mechanics for the Next Millennium	Singapore	1999

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3. Baskar, K, Shanmugam, N E and Thevendran, V	Steel-concrete composite plate girder	Proc. of 6th ASCCS Conference	Vol. 2,655-662	Composite and Hybrid Structures	Los Angeles, USA	2000
4. Shanmugam, N E and Baskar, K	Behavior of steel-concrete composite plate girders	Proceedings of the SSRC Annual Stability Conference	425-440	An International Conference arranged by Structural Stability Research Council, Seattle	Seattle, Washington, USA	2002
5. 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	351-356	-	Singapore	December 16-18,2002
6. 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
7. Baskar, K, Shanmugam, N E and Thevendran, V.	Modeling of steel-concrete composite plate girder	SVU link, NUS quarterly magazine published by Super Computing and Visualization Unit (SVU)	Vol.2, Issue 2., Page 11	-	-	September, 2000
8. 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	Kuala Lumpur, Malaysia	23-25th March 2004
9. 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,	-	-	Houston, Tx, USA.	4-6th October 2005.

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		organized by University of Houston				
10. Baskar. K and Sasikala. M.	Influence of Flange Stiffness on Ductility Behavior of Plate Girders	Fifth International Conference on Thin-walled Structures, ICTWS'2008	-	-	Brisbane, Australia.	-
11. Chithira. K and Baskar. K	Innovations in Building Materials, Structural Designs and Construction Practices (IBMSDCP-08)	A Review on Bond/Shear Transfer mechanism in CFT Columns, Proceedings of the International conference	242	-	Bannari Amman Institute of Technology	15-17 May 2008
12. Ramesh Kumar, P and Baskar, K.	Innovations in Building Materials, Structural Designs and Construction Practices (IBMSDCP-08)	Seismic Evaluation of R.C. Framed Building Before and After the Retrofitting, Proceedings of the International conference	255	-	Bannari Amman Institute of Technology	15-17 May 2008
13. Baskar, K and Sasikala, M.	Innovations in Building Materials, Structural Designs and Construction Practices (IBMSDCP-08)	Numerical Simulation of Plate girders Designed Using Tension Field Theory, Proceedings of the International conference	282	-	-	15-17 May 2008
14. Baskar, K., Anandapadmanabhan, 15. 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
16. 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	Shanghai, China	June 6-11, 2010

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17. 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	-	-	Timisoara, Romania,	Sep.5-7, 2011
18. 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	-	-	Timisoara, Romania	Sep.5-7, 2011
19. 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	-	-	Timisoara, Romania	Sep.5-7, 2011
20. Baskar.K and Rahmathunnisa.M	Non-Linear Behaviour of Semi Rigid Road Safety Barrier	6 th International Conference on Thin-walled Structures, ICTWS'2011	-	-	Timisoara, Romania	Sep.5-7, 2011
21. 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	-	-	Baselios Mathews II College of Engineering, Kollam, Kerala, India	February 20-21, 2012
22. 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, Nagapattinum	March 28 th and 29 th 2012.
23. 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)	76-77	-	New Delhi, India	Feb.13-15, 2013

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24. Honey Verma and Baskar, K.,	Numerical simulation of welding and its influence on ultimate strength of thin-walled welded plate girder (ID – SEC14AQD)	Proceedings of the Structural Engineering Convention 2014, SEC2014	-	-	IIT Delhi	22nd – 24th December 2014
25. Harikrishna, T. and Baskar, K.	Comparative study on response of boiler supporting structure designed using structural steel I-columns and concrete filled square steel tubular columns (ID – SEC14AOL)	Proceedings of the Structural Engineering Convention 2014, SEC2014	-	-	IIT Delhi	22nd – 24th December 2014.
26. Baskar, K and M. Velmurugan	Experimental Investigation on thin-walled circular CFT columns made using cold rolled steel plates	11th International Conference on Advances in Steel-Concrete Composite Structures	315-321	-	Beijing, China	3-5 December 2015
27. Rahmaththunnissa and Baskar. K.	Finite Element Analysis of Road Safety Barrier	National level conference on Failure Studies and Remedial Measures	114-123		KSR College of Engineering	19 th & 20 th Dec.2008
28. 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	136-144		KSR College of Engineering	19 th & 20 th Dec.2008
29. Rameshkumar, P. and Baskar, K.	Structural Evaluation of RC framed building under various seismic zones	National level conference on Failure Studies and Remedial Measures	124-135		KSR College of Engineering	19 th & 20 th Dec.2008
30. K. Rajendra Prasad and K. Baskar	Analysis and comparative study of Natural Draft Cooling	2-Day National Conference on “Recent Trends in Structural			Hyderabad	6th & 7th January, 2012

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	Tower shell for its different segmental heights with respect to its full length shell	Engineering”, KRPRTSE				
31. 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	108	-	MIT Manipal	April 20-21,2012
32. 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	100	-	MIT Manipal.	April 20-21,2012
33. 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	7 th & 8 th February 2013.
34. 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	7 th & 8 th February 2013
35. 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	7 th & 8 th February 2013
36. 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	7 th & 8 th February 2013
37. Muthukumar, S. and Baskar, K	Ultimate Load Behavior of Plate Girder Supported at	Third National Conference – KEYNOTE’2013	-	-	CARE School of Engineering, Trichy	7 th & 8 th February 2013

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	Different Levels					
38. 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
39. 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	20	-	Acharya Institute of Technology, Bangalore	November 9th, 2013

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number