

National Institute of Technology, Tiruchirappalli:

CV of Dr. K. Baskar

Curriculum Vitae



Dr. K. Baskar is presently working as 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 37 papers in refereed international journals (with SCI) and around 40 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 became 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), Associate Dean, Admin (IIIT(S)), and presently the Head of the Department of Civil Engineering and many more positions at Institute level and department level 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, he has modernized the structural engineering laboratory with purchase, installation and commissioning of 200 ton capacity column testing frame, 8m span flexural testing facility, 5 ton capacity cyclic load testing facility, new 100 ton UTM, 5 ton 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 has been the program coordinator for M.Tech Structural Engineering. Curriculum and syllabus is updated very frequently through appropriate Board of Studies. He has guided 3 PhDs, 2 MS and 44 M.Tech. Thesis and, presently guiding 5 PhDs and 3 M.Tech Scholars. He has travelled many countries including South Korea, China, 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:** 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
 (Area of specialization: Structural Dynamics, Finite Element Analysis, Earthquake Engineering, Steel, Steel-Concrete Composite Structures, Offshore and coastal structural engineering/management)

7. Employment Profile

Organization	Designation	From	To
National Institute of Technology, Trichy – 15. Department of Civil Engineering	Assistant Professor	16.05 2007	15.05.2010 11.03.2018
	Associate Professor	16.05.2010	
	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

8. Academic Qualifications (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

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Ph.D.	Civil Engineering	National University of Singapore, Singapore	NA	2003
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9. Academic/Administrative Responsibilities within the Institute

S.No.	Position	Faculty/Department/Centre/ Institution	From	To
1	HoD/Civil Engg.	Dept. of Civil Engineering	11.10.2017	Till date
2	Associate Dean	Administration, IIIT(S)	27.07.2016	12.10.2017
3	Associate Dean	Planning & Development	Oct.2012	Oct.2015
4	Department Node	TEQIP Phase-I & II	01.04.2011	30.10.2017
5	Program coordinator	M.Tech Structural Engineering	06.04.2015	09.11.2017
6	Member	Estate Maintenance Committee	May.2008	Dec.2010
7	Member	Water Management Committee	May.2008	Dec.2010
8	Member	Institute Day Committee	2008 onwards	-
9	Member	Convocation Day Committee	2007 onwards	-
10	Member	S ² -MEMS-centre of excellence	2012	Till date
11	Member	Supercritical Boiler Technology group	2012	Till date
12	Member	Annual Sports Day Committee	2010	-
13	Member	Books Recommendation Committee to Central Library	2008	-
14	Member	Department Administrative Council (DAC member)	30.01.2012	Till date
15	Member	Department Purchase Committee	-	Till date
16	Member	Purchase File Scrutinizing committee	24.11.2012	24.11.2015
17	Lab In-charge	Structural Engineering Lab	02.07.2007	03.11.2017
18	Staff Advisor	Civil Engineering Association	02.08.2010	31.07.2012
19	Chairman	M.Tech (TEM) 3 rd Semester	2010	2011
20	Chairman	M.Tech (TEM) 4 th Semester	2010	2011
21	Chairman	B.Tech 4 th Semester	2011	2012
22	Chairman	Class Committee	-	-
23	DPEC	M.Tech (SE)	03.09.2010	Till date

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	Member			
24	Member	UG - NBA Committee	2009	-
25	Member	PG – NBA Committee	03.07.2011	15.11.2013
26	Coordinator	Final Year UG Project Work	2007	2008

10. Academic/Administrative Responsibilities outside the Institute

S.No.	Position	Institution	From	To
1	Reviewer	National and international journals including Elsevier Journals	-	-
2	Member, BoS	JNTU Ananthapur, AP	-	-
3	Member, BoS	PSG Tech., Coimbatore	-	-
4	Member, BoS	Vellore Institute of Technology (VIT) Vellore	-	-
5	Member, BoS	Nanda Engineering College, Erode	-	-
6	Member, BoS	Pondicherry Engineering college	March 2019	Till date
7	Member, BoS	KSR College of Engineering	March 2019	Till date
8	Associate Dean (Admin.)	IIT, Srirangam	27.07.2016	12.10.2017
9	Member, BoS	Anna University, Chennai	05.01.2016	01.08.2016
10	Member, BoS	ICFAI University, Hyderabad	2011 onwards	-
11	Member, Curriculum Auditing	Bannari Amman Institute of Technology, Sathiyamangalam	-	-
12	Member, Academic Auditing	Kalasalingam University, Tamil Nadu	-	-
13	Member, Academic Auditing	Thiyagarajar College of Engineering Madurai	-	-
14	Member, Academic Audit	Anna University, Chennai	-	-
15	Member, Evaluation Committee Member, Swayam, Swayam Course development	CIT Coimbatore	-	-
16	Member, Doctoral	Anna University	-	-

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	Committee			
17	Member, Doctoral Committee,	PSG Tech, Covai, CIT Covai, TCE Madurai	-	-
18	Member, Doctoral Committee	GCE Salem, GCT Covai	-	-
19	Member, Institute level Advisory Board	Gnanamani College of Technology	-	-
20	Staff Selection Committee Member	NIT Uttarkhand	-	-
21	Faculty Recruitment Panel Member	KPR Institute of Technology, Covai	-	-
22	Faculty Recruitment Panel Member	V. V. College of Engg, Thisayanvilai	-	-
23	Faculty Recruitment Panel Member	National College of Engineering, Kovilpatti	-	-
24	Faculty Recruitment Panel Member	Sudharshan Engineering College, Pudukkottai	-	-

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

Details of Academic Work
<p>(i) Curriculum Development</p> <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

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6. Prefabricated Structures	
(ii) Courses taught at Postgraduate and Undergraduate levels	
UG Level	PG Level
Structural Analysis-II Steel Structures-I Steel Structures-II Matrix Methods of Structural Analysis Earthquake Resistant Structures Steel-concrete Composite Structures	Structural Dynamics Finite Element Methods Advanced Steel-concrete Composite structures Advanced Steel Structures Seismic Design of Structures Prefabricated Structures

(i) Projects guided at Postgraduate level

In total – 47 projects guided at PG level

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	2012

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		Shell During Its Construction Stages	
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

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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
45	A.C.C. Mouli	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	G. Bhargavi	Study of aluminium beams under impact loading	2019

14. Details of Major R&D/Consultancy Projects

Externally Sponsored Project

S. No.	Name of the Project	Funding Agency	MoU date	Value of the Project, in Lakhs
1	Analysis and Design of Large Size HRSG Using Limit State Method for Optimization and Bringing out the Salient Features of the Limit State Design for Future Applications	BHEL Trichy	15.02.2011	7.27 Lakhs + Taxes
2	Design of Deep Girders with Horizontal Splicing for Higher Capacity Boilers	BHEL Trichy	18.12.2015	6.71 Lakhs + Taxes

Consultancy Projects

S.No.	Name of the Project	Agency	Amount in Lakhs
1	Structural Stability Analysis of Various Structures in Cement Plant	Dalmia Cements, Dalmiyapuram	5.82
2	Proposed TNCSC HTG and other Godowns at Kovilpathu Village Near Vedharanyam	Tamilnadu Civil Supplies Corporation	10.26
3	Vetting of Structural Design parameters, Detailed Design Calculations and Drawings for Indian	Mukesh & Associates Salem	5.15

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	Naval Academy Phase-2 at Ezhimala, Kerala	Three Bills combined together	
4	Design for the proposed construction of Additional staff quarters	Airport Authority of India Tiruchirappalli – Two bills together	5.95
5	Diamler India Commercial Vehicle Pvt Ltd Oragadam, Chennai	PTK Architects Chennai Four Bills combined together	5.92
6	Design of Overhead Tank and underground sump for BHEL Tirumayam	Shriram EPC Chennai	3.25
7	Department Consultancy through Testing Services	Combined work	10.00

Industry sponsored Projects

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 Thiruvarur – 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 Dairy 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. PTK Associates, Chennai, Proof checking of Design for the Dailmer (India) Bus plant at Oragadom, Chennai – 3.5 lakhs, ongoing.
12. Study, Repair and Rehabilitation of Molasses Tank, Trichy Distillaries, Trichy, 2008
13. Rebar Locater Test and other NDT Testing and consultancy for Railway Electrification work between Trichy Madurai Electrification Project, Southern Railway, Trichy, 2009
14. Design verification an failure investigation on SICAL Conveyor System at Manali Port, Chennai, Client: Sun Engineering, Trichy, 2011
15. Structural Stability investigation for Line-1 and Line-2 Silo's in Chettinad Cements, Ariyalur works, Tamil Nadu, 2011
16. Structural Stability investigation for AAvin Milk Unit at Pudukkottai, Tamil Nadu, 2011
17. Design of the proposed construction of Additional staff quarters, Airport Authority of Tiruchirappalli, Two Bills together, 5.95

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18. Inspection Report on GAJA cyclone affected BSNL tower, 59,000, EE, BSNL, Tanjore
19. Divisional Engineer (NH) – Vetting of structural design and drawing for 2.6 km long flyover, Nagercoil – 7.08
20. PTK LLP – Structural Vetting of SMF, NDDDB Building, 2.36
21. Structural Vetting of Amenity Center, Thiruvarur, 1.18
22. Ramco Cements – Stability analysis of Fire affected conveyer tunner – 1.12lakhs
23. Many more miscellaneous designs and vetting for small projects for various clients

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
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

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Arumbavur Town Panchayat, Perambalur District, 2013

15. Number of MS/PhDs guided

Number of PhD Scholars guided

S.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 Electronic Plastic Waste as a Partial Replacement for Coarse Aggregate in Concrete	Supervisor	2015
3	Mr. Cyril Thomas, A.	Behaviour of Thin-webbed Castellated Beams Strengthened using CFRP	Supervisor	Submitted
4	Mr. S. Sathiyaseelan	Static and Cyclic Behaviour of Precast wall to wall connection	Supervisor	Ongoing
5	Mr. T. Harikrishna	Optimization of the Plus I columns employed in Boiler supporting structures	Supervisor	Ongoing
6	Ms. S. Shruti	Lateral Load Behaviour of Strengthened RCC Frames	Supervisor	Ongoing
7	S. Kanchi Durai	Strength Characteristics of Novel Mesh Embedment Technique for New Brick Construction with Least Expensive Material	Co-supervisor	Ongoing
8	S. Sivakamasundari	Shear Behaviour of Steel-concrete Composite Modular Beams	Supervisor	Ongoing

Number of MS Scholars guided

S.No.	Name of the MS Scholar	Title of MS Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
1	K.S. Radhika	Influence of Mineral Admixture on Bond Stress Characteristics of Circular Concrete Filled Steel Tubular Columns	Supervisor	2013
2	Harikrishna. T	Non-linear Behavior of Boiler Supporting Structure Designed with Circular CFT Columns and Steel Beams	Supervisor	2015

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

S.No.	Date	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
1	11-15 February 2019	Professor Development Training under TEQIP-III	-	-	Indian Institute of Management Raipur	Indian Institute of Management Raipur
2	December 2014	Emerging Trends in Earthquake Engineering and Structural Dynamics	International	-	IIT Delhi	Delhi
3	March 2014	Project Management Education at National Institutes of Technology (NITs)	-	-	L&T Institute of Project Management, Chennai	Chennai
4	February 2014	Advanced Course on Seismic Response Control and Damage Mitigation Methodologies for Buildings and Structures	-	-	SERC Taramani	Chennai
5	January 2014	Advance Developments in Beams & Plate Theories and Structural Dynamics	-	-	MNIT Jaipur	Jaipur
6	December 2012	Short Course on FEM, lectures by Prof. J.N.Reddy	-	-	Texas A&M	IIT Hyderabad, India
7	December	First Indo-US workshop on	-	-	Department of	NIT, Trichy, India

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	2010	Forensic Engineering			Civil Engineering	
8	December 2010	Workshop cum Training Course on Introduction to Seismic and Wind Resistant Structures	-	-	CBRI-ISWE, CSIR Centre	New Delhi
9	December 2010	International Advance School in Wind Engineering	International	-	CBRI-ISWE-Tokyo polytechnic University, Japan, CSIR Centre	New Delhi
10	February 2009	Workshop on Deepwater Offshore Structures	-	-	Department of Ocean Engineering, Indian Institute of Technology, Chennai	Indian Institute of Technology, Chennai
11	January 2009	Workshop on National Building Code of India 2005	-	-	The Institution of Engineering (India) and Bureau of Indian Standards	NITT Campus
12	August 2008	Two day workshop on IS800-2007	-	-	INSDAG and IITM	
13	December 2007	Workshop on Background to the Limit State Design of Cold formed steel members	-	-	Structural Engineering Research Centre, Taramani, Chennai	Chennai

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14	July 2007	Ansys Training Program	-	-	NIT Trichy under Faculty Development Program conducted by ACTIVE Bangalore	NIT Trichy
15	20 th November to 2 nd December 2006	Structural Analysis – Modern Methods	-	-	Anna University Faculty Development Program	VLB Janakiammal Engg. College
16	October 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
17	May 2005	Failure modes, effect and criticality analysis	-	-	DNV (KL) and PRSS, KL, Malaysia.	Malaysia
18	-	Three days training program on ISO-9001 – 2000	-	-	Perisai Petroleum Tech, KL	
19	2003	Finite Element Modeling of Composite Materials	-	-	MSC Software and Petronas Research & Scientific Services (PRSS)	Kuala Lumpur, Malaysia
20	July 1997	Seismic Design of Reinforced Concrete Buildings	-	-	IIT Kanpur, Course co-coordinator Prof. Sudhir K. Jain	IIT Kanpur
21	1997	Course on Tower crane, its Applications and Installations	-	-	Project Manager, L&T Cement factory construction	Gujarat

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					site	
22	-	Detailing for Multi storeyed R.C.C Framed Structures	-	-	Building Technology Centre, Anna University	Chennai.
23	1994	AutoCAD and its Application	-	-	Annamalai University	Chidambaram
24	1989	Certificate Course on Computer Programming	-	-	Annamalai University	
25	December 2009	Seven Habits of Highly Effective People	-	-	Signature program	NIT Trichy

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

S.No.	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	National	3 rd and 4 th March	Coordinator	Civil Engineering

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	Technical Symposium		2012		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
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	5 th & 6 th	Coordinator	Civil

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	National Level Technical Symposium		Feb. 2011		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

S.No.	Topic	Date	Inviting Organization
1	Innovative Trends and Advances in Civil Engineering	16.03.2019	Kings College of Engineering, Punalkulam, Thanjavur.
2	Effective Utilization of Electronic Plastic Waste as a Partial Replacement for Coarse Aggregate in Concrete	4 th January 2019	One-day workshop on utilization of E-waste in Construction, Dr.N.G.P. Inst. of Tech., Coimbatore.
3	Design of Compression Members focusing on Battened and laced columns, column bases	16 th November 2017	Sethu Institute of Technology, Kariappatti, Madurai
4	Affordable Homes	2 nd October 2017	Institution of Engineers Trichy Chapter, BHEL Campus
5	Design of Laterally Restrained and un-restrained Steel Beams as per IS 800-2007	22 nd September 2017	PSNA College of Engineering and Technology, Dindigul
6	Role of Civil Engineers and Opportunities	1 st June 2017	Shanmuganathan Engineering College, Pudukkottai
7	Developments in Steel Construction	2 nd September, 2016	Shanmuganathan Engineering College, Pudukkottai
8	Modern Trends in Steel Structures	22 nd September	Annai College of Engineering,

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		2015	Kumabakonam
9	Opportunities in Civil Engineering	4 th September 2015	Ponnaiyah Ramajam College of Engineering and Technology, Tanjore
10	IS code provisions on Precast Construction	4 th February 2015	CARE School of Engineering, Trichy-9
11	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
12	Design of Pre-stressed Concrete Cylindrical Tanks and Pipes	20 th August 2014	CARE School of Engineering, Trichy-9
13	Opportunities in Civil Engineering	9 th August, 2014	Shanmuganathan Engineering College, Arasampatti, Pudokottai District
14	Durability, assessment and repairing of RCC structures	14 th July 2014	ISTE-SRM sponsored Faculty Development Program at Paavai Engineering College, Namakkal
15	ANALYSIS AND DESIGN OF PLATE GIRDER According to IS800:2007	09 th November 2013	Faculty Development Program at Coimbatore Institute of Technology
16	DESIGN OF BEAMS According to IS800:2007	09 th November 2013	Faculty Development Program at Coimbatore Institute of Technology
17	IS Code Provisions and Seismic Analysis of Precast Concrete Construction	9 th October 2013	CARE School of Engineering, Trichy
18	Introduction to LSD Method for Steel Structures	15 th & 16 th February 2013	Oxford Engineering College
19	Offshore Structures	2012	NSK college, Nagerkoil
20	Steel Structures	2012	PSR College of Engineering Sivakasi
21	Introduction to Finite Element Methods	2&3 rd March 2012	Two Day Workshop on Finite Element Analysis using Ansys, Oxford Engineering College
22	Introduction of Steel Structures in Offshore construction	2012	Civil Engineering Association, National Institute of Technology, Trichy

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23	Revised Code Provisions and Design of Steel Girders	26 th December, 2011	Faculty Development Programme , KPR College of Engineering
24	Modern Construction using Steel-concrete Composite Structural elements	26 th July, 2011	The Institution of Engineers (India), Tiruchirappalli Local Centre, Tiruchirappalli – 620 014
25	Design of Plate Girders and Gantry Girders	28 th Nov. to 3 rd Dec.2011	Faculty Development Programme , Anna University, Chennai
26	Design of Composite Beams and Shear Connectors	22 nd March, 2011	Workshop of Steel-concrete composite structures, Anna University, Chennai
27	Seismic Design of Structures	2 nd March 2011	Department of Civil Engineering, M.I.E.T. Engineering College, Tiruchirappalli, Tamil Nadu, India
28	Fundamentals of Seismic Resistant Design	28 th January 2010	Department of Civil Engineering, Melmaruvathur Athi Parasakthi Engineering College, Melmaruvathur, Tamil Nadu, India
29	Advances in Structural Engineering – An Insight in to Offshore Engineering”, Presented at Indian Engineering College	1 st October 2009	Vadakkankulam ,Tamil Nadu, India
30	Earthquake Engineering and Construction Practices	2 nd September 2009	Periyar Maniammai University, Vallam, Tanjore, Tamil Nadu, India
31	Design and construction of seismic resistant structures	25-26 August, 2008	Two day training program, State Bank of India, Tiruchirappalli
32	Steel structures in offshore construction	5 th August 2008	The Institution of Engineers (India), Tiruchirappalli Local Centre, Tiruchirappalli – 620 014
33	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
34	Trends in Modern Steel Construction	19 th & 20 th Dec.2008	National level conference on Failure Studies and Remedial Measures.,

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			KSR College of Engineering
35	Reinforcement detailing for seismic resistant structures	7 th February 2007	State level technical seminar, THIAGCIVIL-2K7, Thiagarajar polytechnic college, Salem
36	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.
37	Analysis and Design of Cable Stayed Bridges	-	Anna University, India
38	Failure Investigation on Jack-up Rig leg structure.	-	Ocean Engineering Centre, IIT, Chennai, India
39	Repairing of Corroded Risers and Riser Bends	-	Ocean Engineering Centre, IIT, Chennai, India

19. Membership of Learned Societies

S.No.	Type of Membership	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

S.No.	Country	Duration of Visit	Programme
1	South Korea	28 th August – 1 st September 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
2	China	December 3-5, 2015	International Conference on Advances in Steel-Concrete Composite Structures (ASCCS-2015) at Beijing, China
3	Japan	18 th May to 13 th	Short Term Research Cum Training

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		June 2009	Program under TEQIP
4	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
5	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.
6	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
7	Vietnam	4 days visit in 2003	To investigate a structural failure due to adjacent earth work excavations.
8	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.

21. Publications

(A) Refereed Research Journals:

S.No.	Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year
1	Kanchidurai, S., Krishanan, P.A., Baskar, K. , Saravana Raja Mohan, K.	Strength characteristic of novel mesh embedment technique for new brick construction with least expensive material	Engineering Structures	178	484-492	2019
2	Cyril Thomas, A., and K. Baskar	Strengthening of thin-webbed castellated beams using CFRP	International Journal for Computational Methods in Engineering Science and Mechanics	19 (6)	396-404	2018
3	P. V. Premalatha, S. Senthil Kumar, K. Baskar	Influence of change in pile diameter at various locations of a pile	Indian Journal of Geo-Marine Sciences	46 (5)	1198-1209	2017

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		group in a Berthing Structure				
4	Senthil Kumar. K, Premalatha. P.V, Baskar. K , Sankaran Pillai. G, Shahul Hameed. P	Assessment of Radioactivity in Concrete made with E-waste Plastic	Journal of Testing and Evaluation, ASTM	46 (2)	574-579	2018
5	Cyril Thomas, A., and K. Baskar	Testing and Evaluation of Bond Surface Profile Influencing the CFRP Strengthening of Steel Members	Journal of Testing and Evaluation, ASTM	46 (6)	2569-2583	2018
6	Senthil Kumar. K, Baskar. K.	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.		2017
7	Aditi Pingle and K. Baskar	Non-linear Behavior of Steel Frame with Aluminium Shear-link	Journal of Structural Engineering (JoSE), CSIR-SERC			
8	Senthil Kumar, K., Premalatha, P. V., and Baskar. K	Evaluation of Transport Properties of Concrete Made With E-Waste Plastic	Journal of Testing and Evaluation ASTM	45 (5)	1849-1853	2017
9	Senthil Kumar, K., Gandhimathi, R., and Baskar. K	Assessment of Heavy Metals in Leachate of Concrete Made With E-Waste Plastic	Advances in Civil Engineering Materials, ASTM	5 (1)	256-262	2017
10	K. Senthil Kumar and K. Baskar	Shear Strength of Concrete with E-plastic	Proceedings of Institution of Civil Engineers – Construction Materials	168 (2)	53-56	2015
11	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	718–724	2015
12	K. Senthil Kumar and K. Baskar	Development of Ecofriendly Concrete Incorporating Recycled High-Impact Polystyrene from Hazardous Electronic	Journal of Hazardous, Toxic, and Radioactive Waste ASCE	DOI: 10.1061/(ASCE)HZ.2153-5515.0000265		2015

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		Waste				
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	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		1-4	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	16 (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	44 (3)	137-147	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	Vol.3, Issue.8	1254-1259	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	6 (1)	170-177	2013
19	Madhavi, N., Baskar. K., Natarajan, C. and Rajaraman, A.R	Influence of Skew Angle in the Design of Grids	Journal of Indian Highways		57 -65	2013
20	Resmi, G. and Baskar. K	Damage Assessment of Laterally Restrained Steel Beams using Dynamic Response	Journal of Applied Research	1 (1)	30-36	2013
21	Dhanya, J. and Baskar. K.	Behavioral Analysis of Steel Girders in Skew Bridges	The Bridge & Structural Engineer, Journal of the Ing-IABSE	43 (2)	51-74	2013
22	Madhavi, N., Baskar. K., Natarajan, C. and	Role of central and non-central nodal damage in skewed grid	International Journal of Earth Sciences and	6 (4)	612-616	2013

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	Rajaraman, A.R.,	bridges	Engineering			
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	3 (1)	1-8	2012
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	5 (1)	169-179	2012
25	K. Baskar, R. Anandapadmanabhan , M. Anand and V. Dwarakesh	Tensile Capacity of Corroded Steel Section Strengthened using Fiber Composite Wrap	Journal of Construction Engineering, Technology and Management	2 (1)	14 -25	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	42 (6)	867 – 882	2012
27	Chithira, K. and Baskar. K.	Cross sectional Analysis of Circular Concrete Filled Steel Tube	International Journal of Earth Science and Engineering	5 (4)	792 – 801	2012
28	Radhika, K.S. and Baskar. K	Influence of Mineral admixture on Compressive Strength of Concrete	Journal of Construction Engineering, Technology and Management	2 (3)		2012
29	Madhavi, N and Baskar. K	Numerical Study on Variation in Support Reaction of Skewed Bridge	Journal of Structural Engineering (JoSE), CSIR-SERC	37 (6)	397-402	2011
30	Baskar. K.	Influence of Flange Stiffness on Ductility Behaviour of Plate	International Journal of Civil, Structural,	1 (1)	1-15	2011

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		Girder	environmental and Infrastructural Engineering Research and Development, IJCSEIERD			
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	1 (1)	86 – 116	2011
32	Baskar. K. and Rahmathunnissa, M.	Non-Linear Behaviour of Semi Rigid Road Safety Barrier Predicted through a Simplified Finite Element Approach	The Bridge & Structural Engineer, Journal of the Ing-IABSE	39 (3)	57 -72	2009
33	Shanmugam, N.E and Baskar. K	Ultimate load behavior of webs in steel-concrete composite plate girders	Journal of Institution of Engineers Singapore, Part-A Civil & Structural Engineering	1 (2)	123-140	2008
34	Shanmugam, N E and Baskar. K.	Ultimate strength of steel-concrete composite plate girders	International Journal of Steel and Composite Structures	6 (1)	1 -14	2006
35	Baskar. K and Shanmugam, N E.	Steel-concrete Composite Plate girders Subject to Combined shear and Bending	International Journal of Constructional Steel Research	59	531-557	2003
36	Shanmugam, N E and Baskar. K.	Steel-concrete Composite Plate Girders Subject to Shear Loading	Journal of Structural Engineering, ASCE	129 (9)	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	128 (9)	1158-1168	2002

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(B) Conferences/Workshops/Symposia Proceedings

International Conferences

S.No.	Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
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	2017
2	Narsiram Gurjar and K. Baskar	Penetration Based Design of Double Skinned Composite Wall Panel under Bullet Impact	The 2017 World Congress on Advances in Structural Engineering and Mechanics (ASEM17)	157		Kitex II, Ilson (Seoul), South Korea	2017
3	Cyril Thomas, A. and Baskar. K.	Strengthening of thin-webbed castellated beams using CFRP	International Conference on Composite materials and Structures 2017			IIT Hyderabad	2017
4	Cyril Thomas, A., and Baskar. K.	Assessment of Load Carrying Capacity of Thin-webbed Castellated Beams,	Structural Engineering Convention 2016 (SEC 2016)	322 – 327		CSIR-SERC	2016
5	K. Baskar , E. Aarthy and A. Cyril Thomas	Buckling Behaviour of In-elastic Castellated Beams	6 th International conference on Computational Mechanics 2016 (ICCMS 2016)	882 – 885		IIT Bombay	2016
6	K. Baskar , and Sadananda, H.I.	Non-linear Analysis of	6 th International conference on	886 – 889		IIT Bombay	2016

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		Laterally Restrained Beams with Sinusoidal Corrugated Web	Computational Mechanics 2016 (ICCMS 2016)				
7	K. Baskar, and Sawant, R.	Non-linear Behaviour of Girders with Horizontal Web Splice	6 th International conference on Computational Mechanics 2016 (ICCMS 2016)	890 – 893		IIT Bombay	2016
8	K. Baskar, R. Shobana and Cyril Thomas A	Non-linear Analysis of Castellated Beams	6 th International conference on Computational Mechanics 2016 (ICCMS 2016)	894 – 897		IIT Bombay	2016
9	Baskar. K and Velmurugan. M	Experimental Investigation on thin-walled circular CFT columns made using cold rolled steel plates	11 th International conference on Advances in Steel-Concrete Composite Structures	315-321		Beijing, China	2015
10	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			IIT Delhi	2014
11	Honey Verma and Baskar. K.	Numerical simulation of welding and its influence	Proceedings of the Structural Engineering Convention			IIT Delhi	2014

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		on ultimate strength of thin-walled welded plate girder (ID-SEC14AQD)	2014				
12	Senthil Kumar, K and Baskar. K.	E-waste in construction industry – A review.	International Conference on Ingenious Technologies and Sustainable Developments in Civil Engineering (ICICE 2014)	374-380		Noorul Islam Univeristy, Tamil Nadu, India	2014
13	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	2014
14	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	2014
15	Senthilkumar, K. and Baskar. K.	Compressive Strength Behavior of Concrete made Using E-Plastic	International Conference on Advanced Materials for Energy Efficient	76-77	-	New Delhi, India	2013

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		Waste	Buildings, organized by CSIR-CBRI (Roorkee)				
16	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	2012
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 Engineering Research, ICETT 2012	-	-	Baselios Mathews II College of Engineering, Kollam, Kerala, India	2012
18	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	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	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	-	-	Timisoara, Romania	2011
21	Sathiyaseelan Subramanian and Baskar	Buckling Behavior of Thin Plates	6 th International Conference on Thin-walled	-	-	Timisoara, Romania,	2011

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	Kaliyamoorthy	under Combined in-Plane Shear and Tensile Stresses	Structures, ICTWS'2011				
22	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	2010
23	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	2009
24	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	2009
25	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)	242		Bannari Amman Institute of Technology	2008
26	Baskar, K and Sasikala, M	Numerical Simulation of Plate girders Designed Using Tension Field	Proceedings of the International conference on "Innovations in Building	282		Bannari Amman Institute of Technology	2008

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		Theory	Materials, Structural Designs and Construction Practices (IBMSDCP-08)				
27	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	-	-	2008
28	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	2008
29	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	2008
30	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	255		Bannari Amman Institute of Technology	2008

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			Construction Practices (IBMSDCP-08)				
31	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.	-
32	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.	2005
33	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	2004
34	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	2003
35	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	2002
36	Shanmugam, N E and Baskar. K	Behavior of steel-concrete	Proceedings of the SSRC	425-440	An International	Seattle, Washington,	2002

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		composite plate girders	Annual Stability Conference		1 Conference arranged by Structural Stability Research Council, Seattle	USA	
37	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
38	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	-	-	2000
39	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
40	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

National Conferences

S.No.	Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
1	Senthil Kumar, K. and Baskar. K.	Shear Performance of E-waste plastic (HIPS) concrete	National Conference on Advancement in Materials Science (AMS2014)	17		Coimbatore Institute of Technology, Coimbatore	2014
2	Senthil Kumar, K. and Baskar. K.	Eco-Friendly Concrete:	National Conference on	86			2014

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		Utilisation of E-waste plastic (HIPS) as Coarse aggregate in Sustainable construction (poster)	Advancement in Materials Science (AMS2014)				
3	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	2013
4	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	2013
5	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	2013
6	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	2013
7	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	2013
8	Siddhartha, K. and K. Baskar	Analysis of Steel-Concrete Composite Beam in Flexure	Conference Proceedings, ISTE Sponsored National Conference on Latest	-	-	RMK college of Engineering, Chennai	2013

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			Advancement in Civil Engineering				
9	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	2013
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”, KRPRTE			Hyderabad	2012
11	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	2012
12	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.	2012
13	Chithira. K., and Baskar. K.	Simulation of slip mechanism between steel and concrete	National level conference on Failure Studies and Remedial Measures	136-144		KSR College of Engineering	2008

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		in composite sections					
14	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	2008
15	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	2008

(C) Books & Monographs

S.No.	Title of Chapter	Name of Publishers	Year of Publication	Level
1	<u>Chapter Title</u> Comparative Study on Response of Boiler Supporting Structure Designed Using Structural Steel I-Columns and Concrete Filled Square Steel Tubular Columns. <u>Book Name</u> Advances in Structural Engineering Vol.3	Springer publications ISBN:9788132221876	2015	International
2	<u>Chapter Title</u> Numerical Simulation of Welding and its Influence on Ultimate Strength of Welded Plate Girder <u>Book Name</u> Advances in Structural Engineering Vol.5	Bloomsbury Publications ISBN:9789384898724	2015	International
3	<u>Chapter Title</u> Non-linear Behaviour of Semi-rigid Road Safety Barriers <u>Book Name</u> Thin-walled Structures Recent Research Advances and Trends – Vol.1	ECCS (European Convention for Constructional Steelwork) ISBN:9789291471027	2011	International
4	<u>Chapter Title</u> Behaviour of Composite Deck Slab made using Steel Sheets with Perforated Stiffeners <u>Book Name</u> Thin-walled Structures Recent Research	ECCS (European Convention for Constructional Steelwork) ISBN:9789291471027	2011	International

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	Advances and Trends – Vol.2			
5	<u>Chapter Title</u> Investigation on the Behaviour of Circular CFT Columns with and without Shear Connectors <u>Book Name</u> Thin-walled Structures Recent Research Advances and Trends – Vol.2	ECCS (European Convention for Constructional Steelwork) ISBN:9789291471027	2011	International
6	<u>Chapter Title</u> Buckling Behaviour of Thin plates under combined in-plane shear and tensile stresses <u>Book Name</u> Thin-walled Structures Recent Research Advances and Trends – Vol.2	ECCS (European Convention for Constructional Steelwork) ISBN:9789291471027	2011	International
7	<u>Chapter Title</u> Influence of Flange Stiffness on Ductility Behaviour of Plate Girders <u>Book Name</u> Thin-walled Structures Recent Innovations and Development – Vol.2	Queensland University of Technology ISBN:9781741072396	2008	International
8	<u>Chapter Title</u> Finite Element Modelling of Steel-Concrete Composite Plate Girder <u>Book Name</u> Composite and Hybrid Structures	ASCCS – 6 Secretariat ISBN:0967974909	2000	International
9	<u>Chapter Title</u> Finite Element Modelling of Steel-Concrete Composite Plate Girder <u>Book Name</u> Computational Mechanics for the Next Millennium Volume 1 Solid Mechanics and Fluid Mechanics	Elsevier ISBN:9780080432090	1999	International