KATTA VENKATARAMANA - CURRICULUM VITAE

(last updated: Sept 2016)

PERSONAL DETAILS

Name	:	**Katta Venkataramana**
Designation	:	**Dean (Academic) &** **Professor of Civil Engineering**
Qualification	:	**Doctor of Engineering**
Specialization	:	Structural Engineering (Structural Dynamics, Earthquake Engineering, Offshore Structures, Disaster Risk Mitigation)
Address	:	Department of Civil Engineering National Institute of Technology Karnataka (NITK) Surathkal, Srinivasnagar, Mangalore 575 025, INDIA Tel: (0824) ï 2473337,2473041(office); 09448475875 (cell) Fax: (0824) ï 2474033 Email: ven.nitk@gmail.com, ven@nitk.ac.in

EDUCATION

1986-89	Dr.Eng.	Civil Engineering	Kyoto University, Japan
1984-86	M.Eng.	Ocean Civil Engineering	Kagoshima University, Japan
1982-83	M.Eng.(1sem.)	Civil Engineering	Indian Institute of Science, India
1976-81	B.Eng.	Civil Engineering	University of Mysore, India

POSITIONS HELD

09/2002– present	**Professor**, Department of Civil Engineering, **National Institute of Technology Karnataka**, Surathkal, India
04/2010 ï 03/2011	**Visiting Professor**, Center for Globalization, **Kumamoto University**, Kumamoto City, Japan
01/1995 ï 08/2002	**Associate Professor**, Department of Ocean Civil Engineering, **Kagoshima University**, Kagoshima City, Japan
11/1991 - 12/1994	**Assistant Professor**, Department of Ocean Civil Engineering, **Kagoshima University**, Kagoshima City, Japan
10/1990 - 10/1991	**Postdoctoral Research Fellow**, Department of Engineering Science, **University of Oxford**, **Oxford,** UK
06/1989 - 06/1990	**Research Engineer**, Hazaki Research Laboratory, **Sumitomo Metal Industries**, Hazaki, Japan
10/1981 - 06/1982	**Lecturer**, Department of Civil Engineering, **Manipal Institute of Technology**, Manipal, India

ADMINISTRATIVE POSITIONS HELD AT NITK

10/2014 – Present	**Dean (Academic)**
10/2014 – Present	**Chairperson – Board of Studies (UG, PG, Research)**
04/2013 ï 09/2014	**Head of the Department - Dept of Civil Engineering**
10/2012 ï 04/2013	**Chief Vigilance Officer**
09/2009 ï 03/2010	**Head of the Department - Dept of Civil Engineering**
10/2008 ï 01/2010	**Coordinator – Centre for Disaster Risk Reduction**
01/2004 ï 08/2009	**Chairperson - NITK Health Care Committee**
03/2004 ï 08/2007	**Associate Dean (PG & Research)**
03/2004 ï 08/2007	**Convener - BOS (PG) & BOS (Research)**
09/2005 ï 04/2007	**Chairperson - Estate & Works Committee**

ACTIVITIES AS MEMBER OF PROFESSIONAL SOCIETIES / EXPERT COMMITTEES

06/2009 ï Present	Member, Governing Body, DK Nirmithi Kendra, Surathkal, Karnataka
04/2013 ï 09/2014	Member, Building Committee, Mangalore University, Karnataka
01/2006 ï 12/2006	Chairperson, Technical Committee, Formed by the Deputy Commissioner, Dakshina Kannada District, for revising the Building Byelaws and Zoning Regulations for Mangalore City.
02/2002	Member, Advisory Committee, Asia-Oceania Symposium on information technology and strategy for earthquake disaster reduction, *Organized by National Research Institute of Fire and Disasters, Japan*
03/2001	Member, Expert Committee sent to Gujarat (India) for the Bhuj earthquake damage survey, *Ministry of Education, Japanese Government*
05/2000 ï 09/2002	Member, Expert committee for formulating guidelines for the design and construction of floating bridges in Japan, *Japan Society of Civil Engineers*
06/1995 - 06/1997	Member, Technical Program Committee, *International Society of Offshore and Polar Engineers*
04/1995 - 03/1996	Member, Expert committee on structural cable behaviour, *Kyushu Association for Bridge and Structural Engineering, Japan*

INVITED AS EXPERT by external agencies/organizations

1) Examiner for masterôs/PhD Thesis evaluation ï Kuvempu University, JNTU, VTU, Bangalore Univ., Manipal Univ., IIT Madras, IIT Bombay, IIIT Hyderabad, SVNIT Surat, Kerala University.

2) Reviewer for NPTEL Video Courses, IIT Madras (2013 onwards)

3) Evaluator for Student Projects submitted to Karnataka State Council for Science & Technology (2013)

4) Evaluator of project proposals submitted to Kerala State Council for Science, Technology and Environment (2011 onwards)

5) Evaluator of project proposals submitted to Department of Science & Technology, Govt of India (2013 onwards).

6) Member of Board of Studies - Bangalore University (2007-09), Karunya University (2011-12), MSRIT (2013 onwards)

7) External Expert for the Faculty Selection/Promotion Committee at Manipal University (2008 onwards)

8) Adjunct Professor, Amrita Vishwa Vidyapeetham, Coimbatore (January 2015 onwards)

CONFERENCES/WORKSHOPS / SHORT TERM COURSES (data for last 10 years)

Workshops/Short term courses Organized:

1) Coordinator for the workshop on *"Earthquake resistant design and retrofitting of RC structures"* held at NITK, Surathkal, Institute during January 21-22, 2004
2) Coordinator for the workshop on ñ*Curriculum for postgraduate education in NITK*ò held at NITK, Surathkal during Feb 18-19, Feb 24-25, March 12, March 17-18, 2005.
3) Co-coordinator for the National Workshop on ñ*R&D Activities in National Institutes of Technology : Review & Planning*ò, January 20-21, 2006.
4) Coordinator for the *Training & Capacity Building Programme for Engineers & Architects on Earthquake Engineering* (6 Modules), sponsored by the DCôs Office, Dakshina Kannada District during October 2005 to September 2006.
5) Coordinator for the workshop on *"Coastal Erosion Control Measures for West Coast Region of India"* held at NITK, Surathkal, on March 7, 2006
6) Coordinator for the workshop on *"Earthquake resistant design and retrofitting of RC structures"* held at NITK, Surathkal, during October 9-13, 2006
7) Coordinator for the workshop on *"Earthquake resistant design and retrofitting of RC structures"* held at NITK, Surathkal, during January 7-11, 2008
8) Coordinator for the public awareness Programme on nuclear energy, titled ñATOM FOR PEACEò, held at NITK during February 12-14, 2008.
9) Coordinator for the Indo-Japan Theme Meeting & Workshop (IJTM 2008) on ñ*Disaster Risk Reduction : earthquakes, landslides, Tsunami*ò, held at CPRI, Bangalore during August 28-29, 2008.
10) Coordinator for the Public Awareness Programme, titled ñ*Introduction to Japan, Japanese culture, communication skills in Japanese & Higher studies in Japan*ò, held at NITK, Nitte, Manipal and Mysore during September 15-22, 2008.
11) Coordinator for the Theme Workshop titled *"Concrete for Coastal Environment"* held at NITK, Surathkal, during October 7-8, 2008
12) Convener of the NITK-KU Joint Seminar titled ñRecent Advances in Engineering & Technologyò, held at Kagoshima University, Japan during November 28-29, 2008.
13) Coordinator for the workshop on *"Earthquake resistant design and retrofitting of RC structures"* held at NITK, Surathkal, during March 9-13, 2009
14) Coordinator for the *Theme Meeting on Retrofitting & rehabilitation of Structures and International Seminar on Structural Rehabilitation* held at NITK, Surathkal and Mangalore during March 30-31, 2009.

15) Coordinator for the workshop on *"Design of Earthquake Resistant Structures"* held at NITK, Surathkal, during September 14-18, 2009.
16) Coordinator for the *NITK-KU Joint Seminar 2010*, held at NITK, Surathkal, on March 11, 2010.
17) Co-Coordinator for the *International Engineering Symposium 2011 (IES2011),* held at Kumamoto University, Japan, during March 3-5, 2011.
18) Convener for the *International Engineering Symposium 2012 (IES2012),* held at Kumamoto University, Japan, during March 5-7, 2012.
19) Convener for the *International Engineering Symposium 2013 (IES2013),* held at Kumamoto University, Japan, during March 4-6, 2013.
20) Conference Chair for the *First Annual Conference on Innovations and Developments in Civil Engineering* (ACIDIC 2014), held at NITK Surathkal during May 19-20, 2014.
21) Conference Chair for the *International Workshop on Civil Infrastructure and Structural Materials*, held at NITK Surathkal during July 28-29, 2014.
22) Convener for the International Engineering Symposium 2015 (IES2015), held at Kumamoto University, Japan, during March 4-6, 2015.
23) Convener for the International Engineering Symposium 2016 (IES2016), held at Kumamoto University, Japan, during March 2-4, 2016.

Workshops/Short Term Courses/Meetings participated as resource person & delivered keynote/invited lectures:

1) Delivered lecture on ñLessons from Bhuj Earthquake ï Damage of RC Structuresò, at the workshop on *"Earthquake resistant design and retrofitting of RC structures"* held at NITK, Surathkal during January 21-22, 2004
2) Delivered lecture on ñBending and Torsion of Steel Structuresòat the short-term course on ñDesign of Steel Structuresò, held at NITK, Surathkal during March 29 ï April 6 for teaching faculty from academic institutions and sponsored by Institute for Steel Development and Growth (INSDAG), Kolkata, 2004.
3) Delivered lectures on ñSoil-structure Interactionsòand ñSeismic wave amplificationsòat the short term course on ñStructural Dynamics in Earthquake Engineeringòheld at IISc, Bangalore during March 8-13, 2004.
4) Delivered a lecture titled ñLessons from Consultation workshop on *Addressing Earthquake Awareness, Mitigation & Preparedness in Mangalore City,* held in Mangalore on June 21, 2004, organized by UNDP and District Administration of Dakshina Kannada, in association with NITK.
5) Delivered a lecture titled ñMain Causes of Damages & Lessons learnt from Bhuj Earthquakeòat the *Training Programme for Engineers & Architects*, held at Coimbatore during September 7-8, 2004.
6) Delivered a lecture titled ñEarthquakesòat the Short term course on *Planning, Development and Management of Modern Urban Core Infrastructure Solutions for India* held at NITK, Surathkal during December 21-31, 2004.
7) Delivered a lecture, titled EARTHQUAKES, at the Workshop on *Disaster Risk Management* held at Pilikula Nisarga Dhama, Mangalore during March 5-6, 2005.
8) Delivered a lecture titled ñMain Causes of Damages & Lessons Learnt from Past Earthquakesò, at the *Training & Capacity Building Programme for Engineers & Architects on Earthquake Engineering (Module 1)*, sponsored by the DCôs Office, Dakshina Kannada District on October 7, 2005.
9) ñDelivered a lecture, titled ñDynamic Soil Structure Interaction Effects on Multi-Storeyed RCC Framesò, at the *International Conference in Structural Dynamics & Its Applications*, 7-9 December 2005, GITAM, Visakhapatnam, India, pp.454-467.
10) Delivered a lecture titled ñPerformance of Ground & Buildings in Past Earthquakesò, at the *National Programme for capacity Building of Architects for Earthquake Risk Management,* MIT Manipal, on February 6, 2006.
11) Delivered a lecture titled ñStructural Dynamics in Earthquake Engineeringò, at the *National Programme for capacity Building of Architects for Earthquake Risk Management,* MIT Manipal, on February 9, 2006.
12) Delivered a lecture titled ñSeismic Risk Mitigationò, at the *Training & Capacity Building Programme for Engineers & Architects on Earthquake Engineering (Module 5)*, sponsored by the DCôs Office, Dakshina Kannada District on August 25, 2006.
13) Delivered a lecture titled ñEngineers Role on Earthquake Safe Construction and Seismic Risk Mitigationò, at the *39th Engineers Day Seminar on Role of Engineers in Disaster Mitigation and management* held on Sept 9, 2006 at MIT Manipal.
14) Delivered a lecture titled ñTechno Legal Aspects and review of Existing Building Byelawsò, at the *Training & Capacity Building Programme for Engineers & Architects on Earthquake Engineering (Module 6)*, sponsored by the DCôs Office, Dakshina Kannada District on August 25, 2006.

15) Delivered a lecture titled ñRegulations and Curriculum at NITKò at the *workshop on Student Evaluation Methods in Autonomous Institutions*, held at Malnad College of Engineering, Hassan on February 9-10, 2007.
16) Delivered a lecture titled ñMain Causes of Damages & Lessons Learnt from Past Earthquakes ï Bhuj Experienceò, at the *National Workshop on Recent Trends in Seismic Design of Foundation and Structures"*, held at Nitte on February 27-28, 2007.
17) Delivered a lecture titled ñEarthquake Resistant Design Philosophy of Concrete Structuresò at the *Workshop on Earthquake Resistant Design, Construction, Retrofitting and Rehabilitation of Structures* held at Davangere during 7-11 May 2007.
18) Delivered a lecture titled ñMangalore City Building Byelaws 2006 (draft)ò, *at the Meeting of the Institution of Engineers (India), Kodagu, Dakshina Kannada & Udupi Engineers Association and Association of Consulting Civil Engineers* held at Mangalore on July 21, 2007.
19) Delivered a lecture titled ñNational Building Codeòat the Meeting of the *Rotary Club of Mangalore Metro*, held at Mangalore on 23 August 2007.
20) ñUpgradation of Zoning Regulations & Building Byelaws to the Systematic Infrastructure Development in Mangalore Cityò, *Seminar on Role of Valuers in Infrastructure Development* held at Hotel UTSAV, Mangalore on November 25, 2007
21) Delivered a lecture titled ñMulti-hazard Building Byelaws ï Case study of Mangalore Cityò at the *Training programme on Disaster Safe Building Codes & Designs,* held at Administrative Training Institute, Mysore, during August 4-8, 2008.
22) Delivered a lecture titled ñIntroduction to earthquake Engineering & Lessons from past earthquakesò at the *Tutorial on design, testing and retrofitting of structures for earthquake loading* held at CPRI, Bangalore on August 27, 2008.
23) Delivered a lecture titled ñMulti-hazard Building Byelaws in Cities ï Case Study of Mangalore Cityò at the *Training programme on Urban Management (with specific reference to urban disasters),* held at Administrative Training Institute, Mysore, during December 22-26, 2008.
24) Participated as subject expert at the *Workshop on Formulation of Karnataka State Disaster Management Plan,* held at the Administrative Training Institute, Mysore during April 20-21, 2009
25) Delivered a lecture titled ñExperimental study on the behaviour of infilled RC frames under seismic loadingòat the NITK/ASTR-KU Joint Seminar held at Kagoshima University, Japan on May 28, 2009.
26) Delivered a lecture titled ñNatural Disasters: Prevention & Mitigationò at the *World Environment Day*, organized by NITK Kannada Medium High School on June 6, 2009.
27) Delivered a lecture titled ñMulti-hazard building byelaws in cities: case study of Mangalore City Corporationò, at the Training Programme on *Disaster Management in Urban Areas*, held at the Administrative Training Institute, Mysore, during June 18-20, 2009.
28) Delivered a lecture titled ñMulti-hazard Building Byelaws: A Case Studyò, at the Training Programme on *Disaster Safe Building Codes & Designs* for district level officers, held at the Administrative Training Institute, Mysore, during September 7-11, 2009.
29) Delivered a lecture titled ñMain causes of damages & lessons learnt from past earthquakesò, at the Training programme on Disaster Management, organized by Administrative Training Institute, Govt of Karnataka, and held at Zilla Panchayath hall, Udupi during October 27-29, 2009.
30) Delivered a lecture titled ñDisaster Safe Construction Practices ï Lessons from Past Earthquakesò, at the International Conference on Emerging Trends in Engineering, Held at Jaisingpur, during February 20-21, 2010.
31) Delivered the Inaugural address at the Inaugural function of Studentsô Union and Sportsô Union of Government Polytechnic, Bantwal, Karnataka, September 10, 2011.
32) Delivered a lecture titled ñEarthquake Engineeringò, at the National Seminar on Disaster Management and Mitigation, Kalasalingam University, Krishankoil, Tamil Nadu, September 16, 2011
33) Delivered a lecture titled ñFundamentals of Earthquake Engineeringò, to undergraduate students of Department of Civil Engineering, Alvaôs Institute of Engineering & Technology, Moodabidri, Karnataka, September 21, 2011.
34) Delivered a lecture titled ñEarthquake Engineeringò, at the technical meeting of the Association of Consulting Engineers (India), Mangalore Chapter, September 29, 2011.
35) Delivered a lecture titled ñReinforcement Detailing for Earthquake Resistant Designò as part of the Continuing Education Programme on Reinforced Concrete Detailing, mix design and quality control, organized by Center for Continuing Education (NITK) during October 17-21, 2011.
36) Delivered a lecture titled ñIntroduction to Earthquake Enggò ï at Sahyadri Engg College, organized by ACCE(I), Mangalore Centre, As part of Engineers Week during March10-17, 2012.
37) Delivered a lecture titled ñCoastal Disasters and Possible Mitigate Measuresò, as part of the Training Programme on Disaster Management for District Disaster Management (DDMA) Members, at District

Training Institute, Mangalore, during June 18-20, 2012.

38) Delivered a lecture titled ñIntroduction to Earthquake Engineeringò ï Delivered at Adhiyamaan College of Engineering, Hosur, on Sept 3, 2012.
39) Delivered a lecture titled ñIntroduction to Earthquake Engineeringò at Toc H Institute of Technology, Ernakulam, at the International Conference on Emerging Trends in Manufacturing Technology, during Sept 5-6, 2012.
40) Delivered a lecture titled ñEarthquake Resistant Design of Structuresòï at K L University, Vijayawada, on Sept 8, 2012.
41) Delivered a lecture titled ñEarthquake Disaster Risk Mitigation Measuresò at Dr J J Magdum College of Engineering, Jayasingpur at the 2nd International Conference on Emerging Trends in Engineering during Feb 22-23, 2013.
42) Delivered a lecture titled ñCoastal Disaster Mitigation Techniquesò, in the School of Civil Engineering, Karunya University, Coimbatore, on April 13, 2013.
43) Delivered a lecture titled ôEarthquakesò, at *Poornaprajna College, Udupi*, on September 11, 2013.
44) Delivered the Inaugural address at the Inaugural function of the *SRISTICA-2013 & Engineers' day celebrations* at Srinivas School of Engineering, Mukka, Mangalore on September 20,2013.
45) Delivered a lecture titled ñStrengthening of iron ore filter unitsõ heavy engineering shed at Kuduremukh iron Ore company Limitedò, at the Workshop on ñ*Structural Rehabilitation and Retrofitting using Construction Chemicals*ò held at IIT Bombay during September 24-25, 2013.
46) Delivered a lecture titled ñIntroduction to Earthquakesò, at the one-day National Seminar titled ñEffectual disaster management in India with special reference to Dakshina Kannadaò, held at Besant Evening College, Mangalore on December 17, 2013.
47) Delivered a lecture titled ñSeismic analysis of structuresò, at the 3-day National Workshop on ñDynamic Analysis of Machines and Structuresò, held at NITK Surathkal, during 29-31 January 2014.
48) Delivered a lecture titled ôIntroduction to Earthquake Engineeringò at the St Joseph Engineering College, Mangalore, as part of Engineers Week organized by ACCE(I), Mangalore Centre, on March 25, 2014.
49) Delivered a keynote lecture titled ñEarthquake response characteristics of masonry infill panelsò, at the 3rd World Conference on Applied Sciences, Engineering & Technology, held at Kathmandu, Nepal during September 27-29, 2014.
50) Chaired a technical session at the International Conference on Emerging Trends in Mechanical Engineering (ICETME'15), held at Ernakulam during September 3-5, 2015.
51) Delivered a keynote lecture titled ñSeismic response of masonry infill panelsò, at the 3rd National Conference on Systems, Energy and Environment (NCSEE'15), held at Kannur during September 10-11, 2015.
52) Delivered an invited lecture titled ñSeismic response control of steel structures using dampersò, at the International Conference on Innovative Trends in Civil Engineering for Sustainability ï ICICES 2016 held at Ernakulam, Kerala during January 8-9, 2016.
53) Delivered a keynote lecture titled ñSeismic response of masonry infill panelsò, at the International Conference on Emerging and Sustainable Technologies for Infrastructure Systems,(ESTIS2016)), held at Coimbatore during April 22-23, 2016.

MAJOR RESEARCH PROJECTS WITH EXTERNAL FUNDING/COLLABORATION

12/2007 ï ongoing	Collaborative research in the area of structural engineering (under the MOU between NITK and BARC *(sponsored by BARC)*
04/2010 ï 03/2013	Effect of corrosion on residual capacity prediction of RCC beams and beam column joints in coastal environment *(sponsored by BRNS)*
04/2009 ï 03/2012	Uncertainty and sensitivity analysis of the pushover method for RC framed structures with brick infill walls *(sponsored by BRNS) (Co-Investigator)*
09/2007 ï 03/2012	Evaluation of concrete and structural elements under fire loads *(sponsored by BRNS) (Co-Investigator)*
09/2007 ï 03/2012	Dynamic soil structure interaction effects in multistoreyed structures on homogeneous soil and geosynthetic reinforced soil *(sponsored by BRNS) (Co-Investigator)*
09/2007 ï 03/2011	Earthquake response characteristics of masonry infill panels *(sponsored by BRNS)*
03/2004 - 03/2007	Studies on the seismic vulnerability and earthquake resistant design of structure for south-west region of India *(MHRD-TAT project)*
03/2004 - 03/2006	Establishment of Earthquake Engineering Lab *(Sponsored by NPEEE)*
04/2001 - 08/2002	Dynamic safety evaluations of large offshore structures *(Sponsored by Japanese Ministry of Education, Science & Culture)*
04/2000 - 03/2002	Earthquake resistance of civil engineering structures of Kagoshima prefecture *(Sponsored by Yonemori Research Foundation)*
04/2000 - 03/2001	Dynamics of deep water uplifting devices *(Sponsored by Kagoshima Prefectural Government)*
04/1999 - 03/2001	Development of GPS mounted floating devices for measurement of flow parameters *(Sponsored by Shinwa Gijutsu Consulting Corporation)*
04/1998 - 03/2001	Dynamic characteristics of large offshore structures *(Sponsored by Japanese Ministry of Education, Science & Culture)*
04/1996 ï 04/1998	Dynamic stability evaluation of offshore structures *(Sponsored by Japanese Ministry of Education, Science & Culture)*
04/1994 ï 04/1995	Dynamics of underwater tunnels due to waves, currents & earthquakes *(Sponsored by Japanese Ministry of Education, Science & Culture)*
04/1994 ï 04/1995	Fluid forces on ship rudder models *(Sponsored by Mitsubishi Heavy Industries Ltd.)*
04/1993 ï 04/1994	Junction flow around a strut mounted on a flat plate *(Sponsored by Mitsubishi Heavy Industries Ltd.)*

THESIS GUIDANCE EXPERIENCE

Doctoral thesis

Ongoing:

1. Rajendra Prabhu : Development of Eco-friendly Concrete (co-Guide)
2. Vajreshwari Umachagi : Seismic Response control
3. Archana J Satish : Soil structure interaction (co-Guide)
4. Shreyasvi C : Dynamic analysis of structures

Thesis submitted for evaluation:

Nil

Completed:

1. Bhavana Patel S S (2016): Meshfree technique with adaptive refinement strategy for crack propagation analysis
2. Premanand Shenoy (2016): Optimum material disposition in 2D plate bending problems ï nodes in motion strategy
3. Akshatha Shetty (2014): Effect of reinforcement corrosion on the bond strength of RC members
4. Poornachand Pandit (2014): Effect of corrosion on the flexural behavior of reinforced concrete beams
5. Srujana Nandam (2013): Seismic response of substation equipment with porcelain component
6. Shanthala B (2013): Response analysis of berthing structures for wave and earthquake induced forces including soil-structure interaction.
7. Sujatha Unnikrishnan (2013) : Seismic response of laterite masonry structures
8. Chethan K (2010) : Studies on the influence of infill on dynamic characteristics of reinforced concrete frames
9. H C Chinnagiri Gowda (2010) : Usage potential of welded wire fabrics as lateral reinforcement in RC frames and elements for seismic zones
10. B R Jayalekshmi (2009): Seismic response analysis of multistorey frames including soil-structure interaction
11. Babunarayan K S (2008): Discrete and continuous search algorithms for shape optimization of structures
12. Arakawa K (2002) : Uncertain parameter effects on seismic response evaluations of nonlinear structures
13. Hashimoto S (2002) : Dynamic safety evaluations of offshore structures
14. Komasa T (1998) : Dynamic response analyses of large offshore structures
15. Taniguchi T (1998) : Approximate evaluation of dynamic response of offshore structure

Master's thesis

Ongoing:

1. Seethu K : Seismic response of structures with confined masonry
2. Anusree: Seismic analysis of RCC structure using push over analysis
3. Haseena: Performance-based design of structures
4. Bindhya K V: Performance based design of structures
5. Archana Rajan: Seismic response of buildings with buckling restrained braces
6. Smrithi Sohan: Seismic analysis of structures with mass/stiffness irregularities (co-Guide)
7. Swathi S: Performance based design of Structures *(MTech-Research)*

Completed:

1. Ajay Ramesh Prabhu (2016): Assessment of fundamental period of RC structures
2. Deepa Venugopalan (2016): Dynamic response of RC frames with brick masonry infill panels
3. Kausalya G (2016): Lamb wave based damage detection in curved plates
4. Harisangam Madhura Ajit (2016): Seismic analysis of RCC structure using time history method and push over analysis

5. Mithila Bhagavathi M (2016): Studies on stress intensity factors and crack propagation in 2-dimensional plates using extended finite element method
6. Radhika Harshini V (2016): Health monitoring of stiffened plate structures.
7. Rokalla Eshwara Reddy (2016): Seismic response of asymmetric structures
8. Dheeraj Swamy B L P (2016): Performance based seismic engineering techniques for RC special moment resisting frames
9. Catherin Jaselia (2015) : Earthquake response of brick masonry infills *(MTech-Research)*
10. Kushitha U (2015): Seismic response control of structures using base isolation.
11. Vinaykumar R (2015): Seismic response control of structures with tuned mass damper
12. Muhammad Naseef P A (2015): Reduction of earthquake response of buildings by viscoelastic dampers
13. Sunil D V (2014): Studies on the effect of change in dead load on the design of multistrorey buildings
14. Shashikumar M B (2014): Study on crack initiation and propagation using extended finite element method.
15. Divya Dev C M (2014): A parametric study on the vibro-acoustic performance of segmented fuselage with noise insulating passive material.
16. Neeraja Nair (2014): Structural design and analysis of unmanned aerial vehicle wing
17. Sri Ramakrishna Kavuluru (2014): Bond behavior between concrete and steel.
18. Jessiya Thasneem (2013): Seismic performance of steel structures with and without dampers
19. Manju Marium John (2013): Seismic response control of structures by tuned mass dampers
20. Meenakshy P (2013): Damage detection using ARX model in ASCE benchmark structure and applicability based on damping ratio
21. Aruna D (2013): Scope for utilization of waste tiles as partial replacement to coarse aggregate in normal, porous and blended concretes
22. Thomas Tamut (2013): Usage potential of expanded polystyrene beads as partial replacement to coarse aggregates in concrete
23. Akshatha Shetty (2012) : Effect of corrosion on loss of bond strength in reinforced concrete members *(MTech-Research)*
24. Tamizharasi G (2012): Development and testing of magnetorheological fluid for making seismic dampers
25. Mahesha (2012): Experimental investigation on the flexural strength of corroded PPC reinforced concrete beams
26. Shivaprasad Naik K (2012): Experimental investigation on the flexural strength of corroded OPC reinforced concrete beams
27. Arun S Sedmkar (2012): Analytical investigation on flexural strength of RC beams using ANSYS.
28. Deeja A (2011): Seismic fracture analysis in concrete gravity dams
29. Bharath Kumar S (2009): Response characteristics of RC frames with masonry infill panels
30. Ashok Kumar S (2009): Performance of 150mm normal strength concrete(NSC) cubes at elevated temperatures
31. Goutam (2008) : Performance evaluation of 3D RC Frame under earthquake loading
32. Bhagyashri P (2008): Experimental study on chloride diffusion property of concrete
33. Vikas B N (2008): Evaluation of influence of masonry infill on 2D RC frames under seismic loading
34. Chandrakala C (2008): Evaluation of concrete under fire loads ï preliminary investigation on cylinders
35. Mahesh Babu K (2008): Evaluation of concrete under fire loads ï preliminary investigation on 100mm cubes
36. Mahesh G (2007) : Performance of RC frames using CFRP sheets under seismic loading ï An experimental investigation
37. Sistla Prasanna (2007) : Performance of RC frames using masonry infill under seismic loading ï An experimental investigation
38. Chandrashekhar Poojari (2007) : Performance of RC frames using welded wire fabrics under seismic loading ï An experimental investigation
39. Prasad Vodugu B S (2007) : Performance of RC frames using RECRON 3S fibres under seismic loading ï An experimental investigation
40. Prashanth M H (2006) : Performance enhancement of RC frames using welded wire fabrics ï An experimental investigation
41. Sajith M (2006): Performance enhancement of RC frames using CFRP sheets ï An experimental investigation
42. Neena V Hede (2005) : Static and dynamic analysis of berthing structure
43. Prashanth Salla (2005): Studies on application of artificial neural networks in semi-active control of controllable fluid dampers
44. Hema S (2004) : Optimum design of parabolic antenna
45. Chethan K (2004) : Design and testing of bamboo house for seismic loading

46. Soumya S (2004) : Linear and nonlinear response analysis of SDOF systems subjected to earthquake motions
47. Yasunaga K (2002) : Earthquake response of TLPs under offset condition
48. Uda T (2001) : Wave response characteristics of TLPs
49. Kuguhara M (2001) : GPS mounted floating structures as flow measurement devices
50. Tanabe Y (2000): Dynamics of floating bridges
51. Tougou J (2000): Dynamics of TLPs in steady currents

Undergraduate thesis (data for last 10 years)

Ongoing:

1. Nidhi Rao, Sheethal Raj S G and Harshith Gowda: Response of structures to blast loading

Completed:

1. Manasa Bhat and Neha Madhulika (2016): Effects of different kinds of bracing systems on buildings
2. Geetha C, Subhashree S and Raju Meena (2016): Response spectrum analysis of a RC framed building for different position of shear wall.
3. Aishwaraya M Bansode (2016): Seismic structural characterization of Nepal
4. Debarun Chatterjee, Chera Tata, Sabnam Gogoi, Tekcham Gishan Singh (2013): Effects of Corrosion on flexural strength and deflection of RCC beam (OPC).
5. Abhishek Rastogi, Deepak Bhandarkar, Lalit Mohan (2013): Effects of Corrosion on flexural strength and deflection of RCC beam (PPC).
6. Atul Gupta, Neeraj Gandhi, Satyendra Kumar Patel, Sayantani Dutta (2013): Damage detection using frequency analysis as a part of structural health monitoring.
7. Ankur Durga Prasad Kurmi, Maulik Saxena, Rahul Kumar, Rohit Kumar (2013): Analysis and Design of Extra-Dosed Bridge
5. Karun Mathew Joseph (2012) : Monotonic flexural behavior of plain concrete beams strengthened by textile reinforced concrete
6. Aditya S A, Tariq Zyad, Bharath R and Sajal (2012): Effect of corrosion on bond strength of reinforced concrete: A study using NASYS
7. Avinkrishnan A V, Vinay Damodaran, Sushma A and Poonam M (2012): Effect of dynamic loads on cable stayed bridges
8. Ajit Kamath and Kaustav Sengupta (2012): Development and testing of magnetorheological fluid for making seismic dampers
9. Ravishankar T, Saket Dabi, Surya Prakash N B and Vijendra Chourey (2007): Experimental and analytical dynamic analysis of structures
10. Piyush Pandey, Gautam D G, Singh N R and Sarge D R (2006): Rapid visual screening of existing buildings of NITK campus for potential seismic vulnerability
11. Sunil Kumar D, Ranjith Kumar B and Alok Verma (2006): Structural behavior of interlocking iron-ore-tailings based concrete block pavement

TEACHING EXPERIENCE

Courses

PG Level: 1. Structural Dynamics 2. Earthquake Engineering 3. Safety of Structures
4. Plates and Shells 5. Offshore Structural Engineering 6. Theory of Elasticity

UG Level: 1. Structural Analysis I & II 2. Structural Design (RCC) 3. Structural Design (Steel)
4. Engineering Mathematics

General (both UG&PG): Introduction to Japanese Language & Culture (*non-credit course*)

MEMBERSHIP OF PROFESSIONAL SOCIETIES

1) Fellow, The Institution of Engineers (India) (F-112304-8)
2) Fellow, Indian Association of Structural Engineers (F-214)
3) Life Member, Indian Society of Earthquake Technology (LM 834)
4) Life Member, The Indian Society for Technical Education (LM 38344)
5) Life Member, Indian Concrete Institute (M 7160)
6) Life Member, Kodagu, Dakshina Kannada and Udupi Engineersô Association (LM 642)
7) Life member, Association of Consulting Civil Engineers (India) (LM 2024)
8) Life Member, Association of Structural Rehabilitation (A0502)

AWARDS AND RECOGNITIONS

1) Was conferred **Eminent Engineers' Award** for achieving excellence in professional field and service to the Civil Engineering Fraternity, from the **Association of Consulting Civil Engineers (India), Mangalore Centre**, on the occasion of Engineersô day 2013, held on September 15, 2013.

PUBLICATIONS

Book Chapters

1. Kawano K., Venkataramana K. and Taniguchi T. (1998): ñApproximate Evaluations on Dynamic Responses of Offshore Structuresò, *Structural Safety and Reliability*, Edited by N Shiraishi et al., A.A. Bulkema, Rotterdam, Vol.3, pp.1987-1993.

2. Venkataramana K., Kawano K. and Taniguchi T. (1998): ñEarthquake response and reliability analysis of offshore structuresò, *Structural Safety and Reliability*, Edited by N Shiraishi et al., A.A. Bulkema, Rotterdam, Vol.3, pp.2029-2036.

3. Kawano, K. and Venkataramana, K. (1997): ñDynamic analysis of offshore structures under seismic loading considering fluid-structure-soil interactionò, Book Title: *Theory of Earthquake Resistant Structural Design*, Edited by Yamada, Y., Kyoto University press, Total Pages: 420 (in Japanese).

Research Publications in International Journals

4. Bhavana Patel S S, Babu Narayan K S and Venkataramana K, (2016): ñStrategy for refinement of nodal densities and integration cells in EFG techniqueò, *Structural Engineering and Mechanics,* Vol.59, No.5 (2016), pp.901-920. (DOI: http://dx.doi.org/10.12989/sem.2016.59.5.901)

5. Shetty A, Venkataramana K and Babu Narayan K S (2015): ñStudies on load deflection behavior of corroded RC beamsò, *ICI Journal*, (July-Sept 2015), pp.9-17.

6. Ajay R Prabhu, Premanand Shenoy and Venkataramana K (2015): ñAssessment of fundamental natural period of RCC buildingsò, *International Journal of Engineering and Technical Research (IJETR*) ISSN: 2321-0869, Vol. 3, Issue 7, (July 2015), pp.276-279.

7. Aruna D, Rajendra Prabhu, Yaragal S C and Venkataramana K (2015): ñStudies on usage potential of broken tiles as part replacement to coarse aggregates in concretesò, *International Journal of Research in Engineering and Technology*, Vol.4, Issue 7 (July 2015), pp.110-114.

8. Shetty A, Venkataramana K and Babu Narayan K S (2015): ñExperimental and numerical investigation on flexural bond strength behavior of corroded NBS RC beamò, *International Journal of Advanced Structural Engineering*, Springer, DOI.10.1007/s40091-015-0093-6, (May 2015), pp.1-6.

9. Premanand Shenoy, Babu Narayan K S and Venkataramana K (2015): **"**Perfect Nodal Position Search Method for Optimum Design of Trussesö, International Journal of Engineering and Technical Research (IJETR) ISSN: 2321-0869, Vol. 3, Issue 2, (February 2015), pp.193-200.

10. Shetty A, Venkataramana K and Babu Narayan K S (2014): ñEffect of corrosion on flexural bond strengthò, *Journal of Electrochemical Science and Engineering*, Vol. 4, No. 3 (2014), pp. 123-134.

11. Shetty A, Venkataramana K and Babu Narayan K S (2014): ñExperimental investigation on corroded NBS RC beamsò, *Journal of Civil Engineering Technology and Research,* Vol.2, No.1 (2014), pp.1-6.

12. Bhavana Patel S S, Babu Narayan K S and Venkataramana K, (2014): ñModeling high stress gradients in plates by meshfree methodò, *Journal of Civil Engineering Technology and Research,* Vol.2, No.1 (2014), pp.71-76.

13. Thomas Tamut, Rajendra Prabhu, Venkataramana K and Yaragal S C (2014): ñPartial replacement of coarse aggregates by expanded polystyrene beads in concreteò, *International Journal of Research in Engineering and Technology*, Vol.3, Issue 2 (2014), pp.238-241.

14. Pandit P, Venkataramana K and Babu Narayan K S (2014): ñExperimental and numerical investigation of flexuaral behavior of accelerated corroded beamsò, *Journal of Civil Engineering Technology and Research*, Vol.2, No.1 (2014), pp.429-440.

15. Shetty A, Venkataramana K and Babu Narayan K S (2014): ñFlexural bond strength behavior in OPC concrete of NBS beam for various corrosion levelsò, *Structural Engineering and Mechanics, Techno-Press Ltd*, Vol.49, No.1, pp.81-93.

16. Bhavana Patel S S, Venkataramana K, Babu Narayan K S, Bhagyashri Parla and Kimura Y (2014): ñStructural health monitoring techniques in civil engineering : an overviewò, *International Journal of Earth Sciences and Engineering*, Vol.7, No.01, February 2014, pp. 305-312.

17. Poornachand Pandit, Venkataramana K, Babu Narayan K S, Bhagyashri Parla and Kimura Y. (2014): ñExperimental studies on the effects of corrosion on the flexural strength of RC beamsò, *International Journal of Earth Sciences and Engineering*, Vol.7, No.01, February 2014, pp. 320-324.

18. Pandit P, Ansal V, Venkataramana K and Parthiban P, (2013): ñExperimental investigation on corroded reinforced concrete beam in coastal environment using strain gaugesò, *International Journal of Engineering and Innovative Technology (IJEIT),* Vol.5, No.3, November 2013, pp. 416-422.

19. Jaselia C M, Jayalekshmi B R and Venkataramana K (2013): ñModelling of masonry infills ï A reviewò, American Journal of Engineering Research (AJER), e-ISSN:2320-0847, p-ISSN:2320-0936, (open access journal), pp.59-63.

20. Jayalekshmi B R, Deepthi Poojari V G, Venkataramana K and Shivashankar R (2013): ñSeismic response analysis of reinforced concrete frames including soil flexibilityò, *Structural Engineering and Mechanics, Techno-Press Ltd*, Vol.48, No.1, pp1-16.

21. Amitha S B, Chethan K, Bhavanishankar S, Annapurna B P, Venkataramana K and Ramesh Babu R (2013): ñStudies on the dynamic characteristics of monolithic RC wall panelsò, *International Journal of Earth Sciences and Engineering*, Vol.6, No.04, August 2013, pp. 643-648.

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23. Shetty A, Venkataramana K, Babu Narayan K S and Kimura Y (2013): ñBond strength behavior in reinforced concrete members exposed to corrosive environment ï An overviewò, *International Journal of Earth Sciences and Engineering*, Vol.6, No.03, June 2013, pp. 530-535.

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26. Prabhu K R, Yaragal S C and Venkataramana K (2013). "In pursuit of alternative ingredients to cement concrete construction", *International Journal of Research in Engineering & Technology*, Vol.2, Issue 3, pp.404-410.

27. Shetty A, Venkataramana K and Babu Narayan K S (2013). "Effect of corrosion on degradation of RC members", *International Review of Applied Engineering Research*, Vol.3, No.1, pp. 55-66.

28. Srujana N, Ramesh Babu and Venkataramana K (2012): Full scale experiment and finite element modeling of support structures of substation equipment for evaluation of ground motion amplification", *International Journal of Earth Sciences and Engineering*, Vol.5, No.5(01), October 2012, pp. 1394-1399.

29. Unnikrishnan S, Narasimhan M C and Venkataramana K (2012): "Free vibration studies of box type laterite masonry structures", *Journal of Structural Engineering, SERC*, Vol.39, No.3, August-Sept 2012, pp.332-346.

30. Tamizharasi G, Ajit Kamath Manohar, Kaustav Sengupta, Venkataramana K and Umesh G (2012). "Magnetorheological Dampers – An overview", *International Journal of Earth Sciences and Engineering*, Vol.5, No.4(02), August 2012, pp. 1068-1072.

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34. Shetty A, Venkataramana K, Gogoi I (2012). "Effect of Corrosion on Bond Strength of RC Members", *Proc. of National Conference on Contemporary Civil Engineering Research & Practices (CCERP-2012)*, held at MIT, Manipal (India) during April 20-21, 2012, pp.683-690.

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37. Nagamura K, Kobayashi I and Venkataramana K (2011). "Conservation of civil engineering heritage in Japan", *International Journal of Earth Sciences and Engineering*, Vol.4, No.5 (special issue) – September 2011, pp. 152-160.

38. Chinnagiri Gowda H C, Babunarayan, K S and Venkataramana, K (2011). "Performance appraisal of RC beams using welded wire fabrics as lateral reinforcement in seismic zones", *International Journal of Earth Sciences and Engineering, Vol.4, No.5 (special issue) – September 2011, pp. 174-181.*

39. Yaragal S C, Warad S A, Babu Narayan K S and Venkataramana K, (2011). "Characteristics of normal

strength concrete with and without chemical admixtures at elevated temperatures", *International Journal of Earth Sciences and Engineering*, Vol.4, No.5 (special issue) – September 2011, pp. 196-200.

40. Shanthala B, Subba Rao and Venkataramana K (2011). "Time history analysis of berthing structure including soil-structure interaction", *International Journal of Advances in Science and Technology*, UK, Vol.3, No.2, pp. 77-85.

41. Shetty A, Gogoi I and Venkataramana K (2011). "Effect of loss of bond strength due to corrosion in reinforced concrete members", *International Journal of Earth Sciences and Engineering,* Vol.4, No.6 (special issue) – October 2011, pp. 879-884.

42. Unnikrishnan S, Narasimhan M C and Venkataramana K (2011). "Studies on uniaxial compressive strength of laterite masonry prisms", *International Journal of Earth Sciences and Engineering,* Vol.4, No.2 – April 2011, pp. 336-350.

43. Shanthala B, Subba Rao, Venkataramana K and Harish (2011). "Analysis of berthing structures for wave induced forces", *International Journal of Earth Sciences and Engineering,* Vol.4, No.1 – February 2011, pp. 112-121.

44. Babu Narayan K S, Anil Kumar G, Chandrakala C, Shahikumar H M, Venkataramana K, Yaragal S C, Chinnagiri Gowda H C, Reddy G R and Akanshu Sharma (2010). "Studies on concrete cylinders subjected to elevated temperatures", *International Journal of Earth Sciences and Engineering,* Vol.3, No.4 – Special issue, July 2010, pp.691-698.

45. Monika Thapa, Babu N K S, Halemane K P, Venkataramana K, Yaragal S C, Ramesh Babu, R, Akanshu Sharma and Reddy G R (2010). "Significance of modeling techniques in pushover analysis of RC buildings", *International Journal of Earth Sciences and Engineering,* Vol.3, No.4 – Special issue, July 2010, pp.699– 709.

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49. Prashanth M H, Chinnagiri Gowda H C, Babu Narayan, K S and Venkataramana, K, (2010) "Performance Enhancement of RC Frames using Welded Wire fabrics – AN Experimental Investigation", *International Journal of Earth Sciences and Engineering,* Vol.3, No.1, February 2010, pp.108-115.

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Computers and Concrete – An International Journal, Vol.4, No.4, pp.317-330.

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55. Cotte M., Totsuka S., Venkataramana K. and Koyabashi I. (1999): "Restoring and reusing historical bridges in Kyushu island", *Industrial Patrimony: resources, practices, cultures, (Published by The International Committee for the Conservation of the Industrial Heritage)*, pp.109-118.

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58. Venkataramana K., Kawano K. and Komasa T. (1995): "Uncertain parameter effects on reliability of offshore platform", *Journal of Structural Engineering*, JSCE, Vol.41A, pp.779-786.

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Research Publications in National Journals

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Research Publications in International Conference Proceedings

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79. Radhika Harshini V, Ashwin U, Raja S, Venkataramana K, and Sathyanarayana C N (2016): ñStudies on wave propagation in stiffened plate structuresò, *Proc. of 5th International Engineering Symposium*, March 2-4, 2016, Kumamoto University, Japan, Paper No. C1-2, pp.C121-C126.

80. Deepa Venugopalan and Venkataramana K (2016): ñDynamic response of masonry infill panels under earthquake loadingò, *Proc. of 5th International Engineering Symposium*, March 2-4, 2016, Kumamoto University, Japan, Paper No. C4-2, pp.C421-C426.

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83. Sharada K, Anjana Bhasi and Venkataramana K (2016): ñEffect of rice husk ash on Shedi soilò, *Proc. of 5th International Engineering Symposium*, March 2-4, 2016, Kumamoto University, Japan, Paper No. C5-6, pp.C561-C565.

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94. Akshatha Shetty, Venkataramana K, Babu Narayan K S and Srinath Shetty (2015): ñPotential application of experimental prediction equation in estimating the corrosion of RC structuresò, *Proc. of 4th International Engineering Symposium*, March 4-6, 2015, Kumamoto University, Japan, Paper No. C8-3, pp.C831-C835.

95. Jobil Varghese, Freeda Christy and Venkataramana K (2015): ñAnalysis of floating offshore wind turbineò, *Proc. of 4th International Engineering Symposium*, March 4-6, 2015, Kumamoto University, Japan, Paper No. C8-5, pp.C851-C856.

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