

Academics

1. Subjects Taught:

B.E. (Civil Engineering)

- Analysis of Determinate Structures
- Analysis of Indeterminate Structures
- Engineering Mechanics
- Finite Element Analysis
- Information Measurement Theory
- Matrix methods of Structural Analysis
- Strength of Materials

M.Tech (Industrial Structures)

- Advanced Structural Analysis
- Concrete Technology
- Finite Element Analysis
- Reliability Analysis and Design of Structures
- Special Concretes

2. List of short-term courses / national level technical symposia organised

- Organised the one day national workshop on “Recent Advances in Geotechnics for Infrastructure – RAGI 2017” on 25th May, 2017 at The National Institute of Engineering, Mysuru jointly under Sri Jayachamarajendra College of Engineering, Mysuru, Association of Consulting Civil Engineers, Mysore centre, and The National Institute of Engineering, Mysuru under joint TEQIP Phase 2 initiative.
- Organised the one day colloquium Design SAFE 2016 on “Spatial Structural Systems” on 19th November, 2016 at Sri Jayachamarajendra College of Engineering, Mysuru jointly under Department of Civil Engineering, Sri Jayachamarajendra College of Engineering, Mysuru, and Association of Consulting Civil Engineers, Mysore centre under TEQIP Phase 2 initiative.
- Organised the one day national workshop on “Recent Advances in Geotechnics for Infrastructure – RAGI 2016” on 7th May, 2016 at Sri Jayachamarajendra College of Engineering, Mysuru jointly under Sri Jayachamarajendra College of Engineering, Mysuru, Association of Consulting Civil Engineers, Mysore centre, and The National Institute of Engineering, Mysuru under joint TEQIP Phase 2 initiative.
- Organised the one day colloquium Design SAFE 2015 on “Precast Pre-stress Technology for Sustainable Construction” on 27th November, 2015 at Sri Jayachamarajendra College of Engineering, Mysuru jointly under Department of Civil Engineering, Sri Jayachamarajendra College of Engineering, Mysuru, and Association of Consulting Civil Engineers, Mysore centre under TEQIP Phase 2 initiative.
- Organised the one day national workshop on “Recent Advances in Geotechnics for Infrastructure – RAGI 2015” on 25th April, 2015 at The National Institute of Engineering, Mysuru jointly under Sri Jayachamarajendra College of Engineering, Mysuru, Association of Consulting Civil Engineers, Mysore centre, and The National Institute of Engineering, Mysuru under joint TEQIP Phase 2 initiative.

- Organised the one day colloquium Design SAFE 2014 on “Design of Bridges – Concepts and Applications” on 15th November, 2014 at Sri Jayachamarajendra College of Engineering, Mysuru jointly under Department of Civil Engineering, Sri Jayachamarajendra College of Engineering, Mysuru, and Association of Consulting Civil Engineers, Mysore centre under TEQIP Phase 2 initiative.
- Organised the one day national workshop on “Recent Advances in Geotechnics for Infrastructure – RAGI 2014” on 15th March, 2014 at Sri Jayachamarajendra College of Engineering, Mysuru jointly under Sri Jayachamarajendra College of Engineering, Mysuru, Association of Consulting Civil Engineers, Mysore centre, and The National Institute of Engineering, Mysuru under joint TEQIP Phase 2 initiative.
- Organised the one day colloquium Design SAFE 2013 on “High Rise Buildings – Concepts and Applications” on 21st September, 2013 at Sri Jayachamarajendra College of Engineering, Mysuru jointly under Department of Civil Engineering, Sri Jayachamarajendra College of Engineering, Mysuru, and Association of Consulting Civil Engineers, Mysore centre under TEQIP Phase 2 initiative.

3. Ph.D. (Research) Guidance

a. Completed

- Chidananda S., Civil Engineering, Evaluation of Shear Strength of Longitudinally Reinforced Concrete Beams Using Fracture Mechanics Approach, Visvesvaraya Technological University (VTU), Belgaum - 590 018, December 2017.

b. Ongoing

- Nirmala D.B., Civil Engineering, An Investigation on Self Compacting Concrete with Foundry Sand and Textile Sludge, Visvesvaraya Technological University (VTU), Belgaum - 590 018, Submitted for evaluation in March 2017.
- Sunil Kumar M.S., “Reliability Analysis and Design of Solid Concrete Block Masonry”, Visvesvaraya Technological University (VTU), Belgaum - 590 018.
- Mohammed Ibrahim N., “Investigation on Fatigue Performance of Self Compacting Concrete”, Visvesvaraya Technological University (VTU), Belgaum - 590 018.

4. M.Tech (Industrial Structures) Dissertations Guided (74 nos.)

- “Effect of Seismic Angle of Incidence on RC Buildings”, Anusha G.P., 2016-17.
- “Fragility Analysis of RC Building with Soft Storeys”, Mohamad Saqib, 2016-17.
- “Modelling Fracture using Non-Local Damage Theory”, Sandeep Mahaveer Mekkalike, 2015-16.
- “Pushover Analysis of Building with Short Leg Shear Wall”, Chandrakanth M., 2015-16.

- “Effect of Masonry Infill Walls on Progressive Collapse of Low Rise R.C. Building”, Girish Kumar H.B., 2015-16.
- “Pushover Analysis of Buildings with Short Leg Shear Wall and Fragility Analysis”, Anusha K.L., 2014-15.
- “Development of Analytical Models for Shear Strength of R.C. Beams Without Web Reinforcement using Fracture Mechanics Approach”, Asha B., 2014-15.
- “Pushover Analysis of R.C. Buildings with Short Leg Shear Wall With Studies on Plan and Elevation Asymmetric Buildings”, Ranjan S., 2014-15.
- “Investigation of Shear Strength of R.C. Beams Without Web Reinforcement”, Sunil Kumar R.A., 2014-15.
- “Behaviour of Concrete Filled Steel Tube in Axial Compression”, Shruthi B.V., 2013-14.
- “Pushover Analysis of R.C. Short Leg Shear Wall Structural System in Multistory Buildings”, Syed Yasser, 2013-14.
- “Semi – rigid connections in multistory steel structures”, Mohammed Imran Khan, 2012-13.
- “Design of beams with trapezoidal corrugated web”, Mohammed Dawood Baig, 2012-13
- “Corrugated metal roof cladding sheets subjected to uplift pressure”, Parashuram Lokre, 2012-13.
- “Reliability analysis of fatigue in railway steel bridges”, Rohan Hadgal, 2011-12.
- “Semi – rigid steel connections”, Viraj Kelkar, 2011-12.
- “Design of beams with corrugated web”, Vijayaraj N.K., 2011-12.
- “limit state design of castellated beams and numerical analysis using ANSYS”, Rashmi N., 2011-12.
- “Reliability analysis of fatigue in railway steel bridges”, Umesh B., 2010-11.
- “Analytical model for fictitious crack propagation in lightly reinforced concrete beam considering bond”, Mudukur Swetha, 2010-11.
- “Finite element analysis of plates using ANSYS”, Deepak Patil, 2010-11.
- “Numerical analysis of crack propagation in concrete beams using FRANC2D/L”, Jeevan S., 2009-10.
- “Shear strength of longitudinally reinforced beams - A fracture mechanics approach”, Prashanth, 2009-10.
- “Study of influence of bond in reinforced concrete beams using fracture mechanics approach”, Chidananda S., 2008-09.
- “Reliability analysis of steel members under flexure, tension and compression”, Sunil Kumar M.S., 2008-09.
- “Analytical model for blunt crack propagation in fiber reinforced FRC beam”, Deepika S., 2007-08.
- “Analytical and experimental studies for shear strength of R.C. beams without web reinforcement” Dileep Kumar P.G., 2007-08.

- “Analytical models for fictitious crack propagation in reinforced FRC beam”, Chidambara N., 2006-07.
- “Design shear strength prediction for R.C. beams without web reinforcement”, Nagaraja H. Kuppelur, 2006-07.
- “Shear strength prediction for R.C. beams without transverse reinforcement”, Ravi S., 2005-06.
- “Analytical model for fictitious crack propagation in fiber reinforced concrete beam”, Shambavi K.V., 2005-06.
- “An experimental study on shear strength of reinforced concrete beams without web reinforcement”, Vinay Venkatesh Jois, 2005-06.
- “Analytical models for fictitious crack propagation in lightly reinforced concrete beam”, Krishnaraja K.M., 2004-05.
- “Numerical model for fictitious crack propagation in plain concrete beam”, Prashanth P.N., 2004-05.
- “Numerical model for fictitious crack analysis of plain concrete beams using MATLAB”, Vijayendra K.V., 2004-05.
- “Critical study of shear strength of reinforced concrete beams without transverse reinforcement”, Vinay Kumar S., 2004-05.
- “Shear strength of reinforced concrete beams”, Jagadeesh K.M., 2003-04.
- “Numerical model for fictitious crack propagation in plain concrete beams”, Roopa T.R., 2003-04.
- “Determination of minimum reinforcement in beams using fracture mechanics”, Amarnath R. Boraiah, 2002-03.
- “Analytical models for blunt crack propagation in lightly reinforced concrete beam”, Nirmala D.B., 2002-03.
- “Finite Element approach to fictitious crack analysis in plain concrete beam”, Syed Saud, 2001-02
- “Analytical models for blunt crack propagation in reinforced concrete beam using linear and bilinear softening relation”, Vidya J.H., 2001-02.
- “Determination of fracture parameters used in analytical models for fictitious crack propagation in plain concrete beams”, Girish B.M., 2000-01
- “Analytical models for blunt crack propagation in reinforced concrete beams considering constant and variable central elastic bands”, Jayaprakash Narayana D., 2000-01.
- “Crack growth in concrete flexural members – A fracture mechanics approach”, Nirmala M.V., 2000-01.
- “Some studies on fly ash as potential material for flowcrete and roller compacted concrete”, Pathapati Ramesh Raju, 2000-01.
- “Analytical model for fictitious crack propagation considering non-linear, bi-linear, tri-linear and six-segmented softening relations”, Balaji S., 1999-2000.
- “Analytical model for blunt crack propagation considering non-linear, bi-linear, tri-linear and six-segmented softening relations”, Sharna Raghavan, 1999-2000.

- “Analytical model for blunt crack propagation considering bi-linear and non-linear strain softening relations”, Govindaraju M.N., 1998-99.
- “Analytical study of fictitious crack propagation in concrete beams considering non-linear strain softening relation”, Jayaram T.N., 1998-99.
- “Composite beam analogy fracture model for concrete”, Manjunatha K.T., 1998-99.
- “Determination of fracture parameters of concrete in flexure using one size specimens”, Mohan Kumar K.N., 1998-99.
- “An analytical study of fracture of plain concrete beams using blunt crack model (Considering a linear post-peak stress-strain relationship), Arun Kumar M.K., 1997-98.
- “Finite element analysis of blunt crack propagation in plain concrete beam”, Durga Prasad P.V., 1997-98.
- “Development of analytical model for fictitious crack propagation in plain concrete beams – using non-linear strain softening relationship”, Girish K., 1997-98.
- “Analysis of multistory frames under sequential loading”, Raghavendra Bhat, 1996-97.
- “Development of analytical models for fictitious crack propagation in plain concrete beams”, Ravikumar P.N., 1996-97.
- “Parametric study of butterfly shells”, Nitin S.S., 1995-96.
- “Study of size effect in fracture mechanics models”, Rajesha R.B., 1995-96.
- “Computer oriented simplified yield line analysis of R.C.C. slabs”, Mahadevegowda G., 1994-95.
- “A non-linear model for the fracture of notched plain concrete beams in three point bending”, Sadashiva Aradhay N., 1994-95.
- “Modelling the fracture of cementitious materials”, Aparna Devi V., 1993-94.
- “Study on light weight aggregate concrete – A composite material”, Malleswarappa, 1993-94.
- “Effect of strength on fracture energy of concrete in size effect law”, Rajeevan Rameth, 1993-94.
- “Proportioning of fly-ash concrete mixes - A generalised approach”, Yenagi B.V., 1993-94.
- “A comparative study of two fracture parameter fracture model and improved effective crack model for the fracture of plain concrete”, Lakshminarayana, 1992-93.
- “Experimental evaluation of fracture energy of plain concrete using size effect law”, Ramana Reddy G., 1992-93.
- “Proportioning of fly ash concretes”, Renuka Prasanna K.R., 1992-93.
- “Analysis of anchorage zone in post-tensioned prestressed concrete members using finite element technique”, Nagendra H.N., 1991-92.
- “Fracture mechanics of plain concrete – an evaluation of two parameter fracture model”, Venkateshwara Gupta A., 1991-92.

- “A study on flexural crack behaviour in reinforced concrete beams”, Basavaraju S., 1990-91.
- “Early prediction of 28th day compressive strength of concrete”, Manjunatha Y.M., 1990-91.
- “Investigation on the behaviour of class-3 pre-tensioned concrete beams”, Lohithaswa G.M., 1989-90.
- “Investigation on the behaviour of post-tensioned prestressed concrete beams”, Srihari, 1988-89.

5. M. Sc. (Engg.) Dissertation Work Guided

- “Roller compacted concrete analysis by soil mechanics principles”, Girish Raje Urs H.L., 2000.

6. UG Final Year Projects Guided (in last five years)

- “Analysis and Design of Multi-Storeyed Residential Building using CYPECAD”, Bramarambika M., Bindushree J., Keerthana R. and Vidyashree Y.S., 2017.
- “Analysis and Design of Reinforced Concrete Bridge Deck”, Mohamed Zaidur Rahman, Rashmi M., Reshma N.P. and S. Bindushree, 2016.
- “Pushover Analysis of Tall Buildings with Different Lateral Load Resisting Systems”, Alan Akrash M.J., Anil S., B. Vikas Bhaktha and Sreekanth V., 2015.
- “Proposal for college auditorium planning and design”, Bruhath.V.Raker, Chaitanya Gandhi, Deepthi Darla, Shetty Rakshith, and Varsha Kaveri K.M., 2014.
- “Analysis of Lithely Arch Bridge”, Ajith M., Hemanth Kumar B.S., Pragati M.P. and Sachin H., 2013.