

Professional

1. Subjects Taught:

B.E. (Civil Engineering)

- Applied Geotechnical Engineering
- Fundamentals of Earthquake Engineering

M.Tech. (Industrial Structures)

- Theory of Elasticity, Plasticity and Fracture Mechanics
- Advanced of Foundation Engineering

2. Activities in EDUSAT Program of VTU

Sl No	Program No	Month / Year	Topic	Activity
1	Program 1	May – Aug 2006	Strength of Materials	4 Lectures
2	Program 11	May – Aug 2009	Geotechnical Engineering-I -06CV54	Coordinator + 7 Lectures
3	Program 14	May – Aug 2010	Geotechnical Engineering-II -06CV64	Coordinator + 7 Lectures
4	Program 15	Oct – Feb 2013	06CV754 Fundamentals of Earthquake Engineering	Coordinator + 6 Lectures
5	Program 27	Sept – Oct 2017	Strength of Materials	4 Lectures

Sponsored Projects handled

Sl No	Title	PI / Co-PI	Sponsor	Status
1	Geotechnical reconnaissance of Gujarat Earthquake of Jan 2001	Co-PI	Japanese Society of Soil Mechanics and Foundation Engineering	Completed in 2001 with University of Tokyo
2	Model Studies in Earthquake Geotechnical Engineering	PI	AICTE	Completed in 2002
3	Network of Strong Motion Accelerograms in Greater Bangalore Region	Co-PI	Department of Science & Technology	Completed in 2004 with I.I.Sc., Bangalore
4	Geotechnical reconnaissance at Andaman Islands during Sumatra Earthquake of Dec 2004	PI	Department of Science & Technology	Completed in 2001

5	Seismic Retrofitting of Retaining Walls	PI	AICTE	Completed in 2016
6	Evaluation of Course on “Urban Disaster Management”, SIUD, GOK	PI	GOK	Completed in 2013
7	TEQIP Phase 2 under subcomponent 1.2	TEQIP Coordinator	World Bank Project, GOI	Completed in 2017

Foreign Travel undertaken

Sl No	Dates	Details	Country
1	Oct 1993 to Oct 1996	To pursue doctoral degree at University of Tokyo, Japan under ADB Scholarship	Japan
2	Aug 2003	To deliver keynote lecture in ARC	Singapore
3	Aug 2003	To address faculty and students of Civil Engineering at University Malaya, Kuala Lumpur	Malaysia
4	Jan 2005	To deliver keynote lecture in commemorative conference	Japan
5	Jan 2005 to Feb 2005	Post-doctoral research at University of Tokyo	Japan
6	Feb 2005	To address faculty and students of Civil Engineering at Asian Institute of Technology, Bangkok	Thailand
7	Jan 2006 to May 2006	As visiting Assistant Professor for one semester in January 2006 term under Indian Secondment program and taught course on “Soil Dynamics and Earthquake Engineering” at graduate level in Asian Institute of Technology, Bangkok	Thailand
8	24 to 30 June 2007	To present technical paper and participate in 4 th International Conference in Earthquake Geotechnical Engineering at Thessaloniki	Greece
9	June 2008	To develop interaction between SJCE and Asian Institute of Technology, Bangkok	Thailand
10	March 2009	To sign MOU between SJCE and Asian Institute of Technology, Bangkok	Thailand
11	2 nd to 8 th March 2013	To present technical paper and participate in 3 rd International Engineering Symposium IES 2013 at the 100 th Anniversary Hall, Kumamoto University	Japan
12	28 th Sept 2015 to 2 nd Oct 2015	To participate in Tamasek – NUS Foundation initiative as fellow in ‘University Management’ at National University of Singapore representing Government of India from MHRD	Singapore

TEQIP Coordinator: Coordinating TEQIP II 1.2 component activities at S. J. College of Engineering which focuses on Innovation, research and post graduate education. The world bank assisted grant of Rs. 12.5 crores shall be used for procurement, Assistantships to M.Tech and Ph.D students, R & D, I-I-I, FSDP, Management Capacity Building and improvement in Weak Students. It is a challenging job as SJCE is among about 100 colleges funded by the prestigious grant.

Responsible for handling Rs. 12.5 Crore under 1.2 component of world bank assisted TEQIP Phase II program at Sri Jayachamarajendra College of Engineering, Mysuru and utilizing for Post Graduate education, research and innovation and initiated the following activities.

- Procurement
- Disbursement of Teaching Assistantship to M.Tech and Ph.D students
- Research and Development
- Industry Institute Interaction
- Faculty and Staff Development
- Management Capacity Building
- Institutional Reforms
- Weak students and Equity assurance
- Incremental Operating Cost

Consultancies handled

- Geotechnical Investigation for New Layout formation at R. T. Nagar, Mysuru, MCC, Rs. 10 Lakhs, Completed in 2010, Co-PI.
- Evaluation of SBC of Soil
- Evaluation of Compaction Characteristics of Soil
- Classification of type of rock / soil
- Failure analysis and retrofitting methods of structures
- Stability analysis of slopes in Madikeri region
- Failure analysis of retaining walls

Activities in Disaster Management

- Established Earthquake Engineering Laboratory at S. J. College of Engineering, Mysuru.
- Served as member of **TC4** and **ATC3**, a technical committee for Earthquake Geotechnical Engineering and related problems of International Society for Soil Mechanics and Geotechnical Engineering.
- Completed a Government of India (AICTE) Research Project of a grant of Rupees One Million for '*Model Studies in Earthquake Geotechnical Engineering*'.

- Carried out a research project worth Rupees Seven Million, jointly with Indian Institute of Science, Bangalore for establishing the '**Network of Strong Motion Accelerograms in Greater Bangalore Region**' sanctioned by the Department of Science and Technology, New Delhi.
- Guided over 25 B.E. projects on various topics of Civil Engineering, around 50 M.Tech dissertation works in earthquake engineering, soil structure interaction problems and concrete technology, guided TWO doctoral students in the area of earthquake geotechnical engineering and presently guiding FOUR Ph.D students and TWO M.Sc. (Engg.) students in the area of earthquake geotechnical engineering.
- Published over **120 technical papers** at National & International Journals and conferences and more than **30 lecture notes** and **40 research and consultancy projects**.
- Invited by **Japanese Geotechnical Society** for the reconnaissance survey of geotechnical damage suffered during 2001 **Gujarat earthquake**.
- Invited to deliver theme lecture by the international technical committee on natural hazards on "**Geotechnical Aspects of Gujarath Earthquake**" at the **13th Asian Regional Conference** held in Singapore in August 2003.
- Invited to deliver theme lecture at Kobe, Japan in ISEE 2005, an **International Conference in Earthquake Engineering** to commemorate the tenth anniversary of Hyogo Ken Nanbu Earthquake in January 2005.
- Invited to deliver theme lecture by the international technical committee on natural hazards on "**Geotechnical Aspects of Sumatra Earthquake in Andaman Islands**" at the **14th Asian Regional Conference** held in Kolkata in December 2007.
- Completed the Department of Science and Technology research grant of Rupees Three Hundred Thousand to study the earthquake damage suffered in Andaman Islands after the Sumatra earthquake of Dec 2004.
- Developed manual shaking Table for research in Earthquake Geotechnical Engineering in 2000.
- Developed a weight sounding equipment for field testing of soil in 2005
- Carrying out AICTE R&D project titled "**Seismic Retrofitting of Retaining Walls**" worth 13.5 Lakh Rupees
- Worked as convener for Natural Disaster Mitigation division of Indian Geotechnical Society.
- Evaluating the course on '**Urban Disaster Management**' organized by **SIUD/ATI**, Mysuru
- Participated in invited Brain Storming Consultative workshop of experts for preparation of **Disaster Management Plan for Karnataka** organized by **ATI**.
- Regularly deliver lectures in Earthquake Engineering at ATI, Mysuru, KERS, K R Sagar.
- Organised and coordinated First Indo Japan Workshop in Geotechnical Engineering on 14th December 2011 at Kochi, India.

Recent Keynote Lectures

Date	Place	Topic
9/03/2013	IIT Madras	Earthquake Geotechnical Engineering
23/08/2013	National workshop on Challenges in Geotechnical Engineering, VIT University, Vellore	Geotechnical Lessons from Past Earthquakes
11/06/2013	Two Weeks AICTE sponsored FDP on Basics of Structural Dynamics and Seismic Designs, AnnasahebDange College of Engineering and Technology, Ashta, Dist-Sangli, Maharashtra	Lessons from Past Earthquakes
08/06/2013	National Workshop on NIT, Surat	Issues on the performance of soil slopes and retaining walls
	One Week TEQIP sponsored national workshop on Recent Advances in Geotechnical Engineering at Vishakapattanam	
	One Week TEQIP sponsored national workshop on Soil Dynamics at National Institute of Technology, Calicut	
30/06/2014	One Week TEQIP sponsored national workshop on Soil Dynamics at National Institute of Technology, Calicut	Liquefaction and Site Effect
12/07/2014	IIIT Hyderabad	Treatment to foundation on expansive soils
	ATI, Mysuru	Regularly deliver lectures on Earthquake Disaster Management, Importance of Earthquake Engg, Floods and Wind Mitigation etc.
	KERS, K R Sagar	Regularly deliver lectures on Basic geomechanics, Compaction characteristics, quality control in geotechnical engg., earthquake engg. Etc.
01/10/2016	Delivered 5 th Madhav Lecture Series at JNTU Hyderabad organized by Indian Geotechnical Society Hyderabad Chapter	Importance of Stable Foundation in Seismic Environment

Organization of Conferences / Workshops / CEP Courses

Sl No	Description	Dates	Venue	Sponsors
1	First Indo Japan Workshop in Geotechnical Engineering Theme : Geotechnical Earthquake Engineering	14 th Dec 2011	Kochi	IGS
2	National Workshop on Geotechnical Engineering for Infrastructural Development, NWGEID	4 th Oct 2010	SJCE, Mysuru	KGC, IGS, SJCE & NIE
3	Earthquake Engineering, NPCBEERM program of Government of India for capacity building among engineers and architects.	Dec 2011, 5 days	SJCE, Mysuru	NPCBEERM, SJCE
4		Jan 2010, 5 days	SJCE, Mysuru	NPCBEERM, SJCE
5		Oct 2009, 5 days	SJCE, Mysuru	NPCBEERM, SJCE
6	Reinforced Earth and Geotextiles	June 2002	SJCE, Mysuru	KGC & SJCE
7	Computer Applications in Civil Engineering	08/10/2001 to 19/10/2001	SJCE, Mysuru	AICTE & ISTE
8	MIS for TEQIP Institutions in South India	11/04/2012 to 12/04/2012	SJCE, Mysuru	TEQIP
9	FMR for TEQIP Institutions in South India	13/04/2012	SJCE, Mysuru	TEQIP
10	Identification of Weak Students	20/07/2013	SJCE, Mysuru	TEQIP
11	New Initiations in Technical Education	30/10/2013	SJCE, Mysuru	TEQIP
12	Finishing School to PG students on “Software for Structural Analysis and Design, ETABS”	Nov – Dec 2013 50 Classes	SJCE, Mysuru	TEQIP
13	One day workshop on Recent advance in Geo techniques for Infrastructure RAGI- 2014	15/03/2014	SJCE, Mysuru	TEQIP & ACCE
14	One day workshop on Recent advance in Geo techniques for Infrastructure RAGI- 2015	25/04/2015	NIE, Mysuru	TEQIP & ACCE
15	One day workshop on Recent advance in Geo techniques for Infrastructure RAGI- 2016	07/05/2016	SJCE, Mysuru	TEQIP & ACCE
16	One day workshop on Recent advance in Geo techniques for Infrastructure RAGI- 2017	25/03/2017	NIE, Mysuru	TEQIP & ACCE

Organization of CEP Courses: Since 1988 organised many CEP Courses in the following areas

- Reinforced Earth Construction
- Computer Applications in Civil Engineering
- Roads and Bridges
- Foundation Engineering

Supervision of Ph.D Dissertations

Sl No	Name of the candidate	Title of thesis	Year
2	Barnali Ghosh	Seismic Response study of Earth and Rockfill Dams	Ongoing
3	Srikanta Prasad S	Pushover Analysis of Building Frames	Ongoing
4	Vijay Kumar	Seismic performance study of Pile Foundations	Ongoing

Supervision of M.Sc.(Engg.) Dissertations

Sl No	Name of the candidate	Title of thesis	Year
1	Chaitra	Critical review of different models of Pore Water Pressure generation	Ongoing

Completed Ph.D Dissertations

Sl No	Name of the candidate	Title of thesis	Year
1	Chandradhara, G. P.	Seismic Response of Earth Embankments	2009
2	Nanjundaswamy, P.	Seismic Response study and estimation of permanent displacement of Quay Walls	2010
3	Vijayendra K. V.	Site Characterization and amplification study of seismic motion in layered soil	2016

Completed M.Sc.(Engg.) Dissertations

Sl No	Name of the candidate	Title of thesis	Year
1	Basavaraj Hiremutt (M.Sc Engg. @ University of Mysore)	Analysis of Earthquake records using FFT and Wavelet theory and use of multi media in Earthquake Engg	2003
2	Pushpa	Seismic Response study of slopes	2017

M. Tech Projects guided

Sl No	Name of the candidate	Title of thesis	Year
1	Tanuraj, M	Earthquake Response Analysis Of Ground	1999
2	Ravikumar, M	Seismic Response Analysis Of Horizontally Layered Ground	2000
3	Gopikrishna, K	An Approach To Assess Severity Of Site Damage Using Accelerograms	2000
4	Imran UIHaq, T	Simulation Of Seismic Behaviour Of Model Ground Using FE Technique	2000
5	Umashankar, H. M.	Seismic Behaviour Of Sloping Model Ground	2001
6	Dhanunjaya, Y. C.	Seismic Behaviour Of Rigid Structure On Saturated Model Ground	2001
7	Srilakshmi, H. S.	Simulation Of Ground Behaviour During Shaking Using F E Technique	2001
8	Yogesh, H. P.	Finite Element Analysis Of Dynamic Behaviour Of Structure On Soft Soil	2001
9	Vijayakumar, T. B.	Simulation Of Seismic Behaviour Of Earthen Embankment	2002
10	Vinay, K. G.	Model Studies On Mitigation Against Liquefaction Of Earthen Embankment-I	2002
11	NeethuUrs, B. A.	Seismic Response Of Earthen Embankments Using SHAKE	2002
12	Kumar, R	Seismic Response Of RC Structures Using FE Technique	2002
13	Sunil, M	Model Studies On Mitigation Against Liquefaction Of Earthen Embankment-II	2003
14	Kiran, S	Seismic response of quay wall using shaking table	2003
15	Prathibha	Free Field and Near Field Site Amplification under seismic loading using F E Technique	2003
17	Shanu P	Analysis of Embankment using GEOSLOPE	2004
18	Reshmi V K	Dynamic analysis of Embankment using GEOSLOPE	2004
19	Govindaraju S K	Failure Mechanism of Model Quay Wall on Shaking table	2004
20	Homendro Singh Y	Mitigation measures against failure of model quay wall during shaking	2004
21	Shankaran	Seismic Mitigation of Quay Walls from Shaking Table Tests	2005
22	Prakash	Embankment mitigation by Dense Zone in subsoil form Finite Element Analysis	2005
23	Kotresh, K. R.	Dynamic Analysis of Stability of slope from Equivalent linear approach	2005
24	AbdullahImandar	Seismic mitigation of embankment by dense zone from shaking table tests	2005
25	Rajeshwari, H. K.	Dynamic Analysis of Structural members and embankments using NISA	2006

26	PunitVibhu	Static and Dynamic analysis of geotechnical structures using FLAC	2006
27	Sandhya, H. C.	A study of slopes and embankments	2006
28	Satish	Dynamic analysis of slopes from shaking table tests	2006
29	Goverdhan	Seismic Performance of Embankment using GEOSLOPE	2007
30	Channabasavanna	Estimation of permanent displacement of Quay wall	2007
31	Niranjan	Performance of Quay wall after earthquake	2007
32	Bharatheesh	Estimation of permanent displacement of Embankment	2007
33	AnupShekhar	Soil Structure Interaction	2007
34	Satish Reddy	Influence of Topographic Irregularities on Seismic Ground Motion	2008
35	Praveen Kumar C J	Evaluation of Seismic Displacement of Retaining Wall	2008
36	Vijay Kumar K	Seismic Performance of Reinforced Earth Retaining Wall using FLAC	2008
37	Yashupal, K. G	Evaluation of Natural Frequency of Retaining Wall System using NISA	2009
38	Mohammed Abdul Lateef	Critical comparison of Finite Element Approach with classical Theory of Elasticity for structural engineering problems	2009
39	Srikanta Prasad	Push over analysis of structural frames	2010
40	Goverdhan	Push over analysis of infilled frames	2011
41	Sushma C. K.	Stress Analysis of Tunnel system from Elastic and Mohr Coulomb approaches using FLAC	2010
42	ShaikKabirAhmed	Analysis of soft storey and short column effects from Push Over Analysis	2011
43	Siddesh K M	Performance study of tunnel structure using FLAC	2011
44	Mythra	Seepage and stress analysis of earthen dams using GEO-STUDIO	Ongoing
45	Sandeep G S	Seismic damage assessment from Strong Motion Accelerograms	2012
46	Chandrashekar N B	Pushover analysis for Irregular frames	2012
47	Madhusudhan	Seismic performance study of steel frames from Pushover analysis	2013
48	Althamash	Finite Element Study on Bearing Capacity of soil using PLAXIS	2013
49	Rajesh M. N.	Influencing parameters on seismic performance of R C structures from Pushover analysis	2014
50	Dinakar K. N.	Simulation of Deep Excavation by different approaches using PLAXIS	2014
51	Nagaraj	Seismic performance study of irregular buildings from pushover analysis using ETABS	2015
52	Priyanka	Performance study of underground tunnel using PLAXIS	2015
53	Anusha	Performance of Tunnel structures from PLAXIS	Ongoing
54	Mallanagouda Biradar	Seismic Performance of Irregular RC Frames from Pushover Analysis using ETABS	2016

55	Tipparaya	Seismic performance study of R C structures with elevation irregularities on different grounds from ETABS	2017
56	Pavithra Halwar	Performance study of different retaining structures using PLAXIS	2017
57	Ayesha	Critical evaluation of methods of provision of footings for corner columns	Ongoing
58	Akshay	Beams on elastic foundation using PLAXIS	Ongoing