

## FACULTY PROFILE

**Name** : Dr. P. G. Rakaraddi



**Designation** : Assoc Professor

**Department** : Civil Engineering

**Employee ID** : TCV013

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**Orcid ID** : orcid.org/0000-0002-8492-770

**Scopus ID** : 55427772200

**Vidwan Id** : 148527

**Qualification** : MTech, PhD

**Professional**

**Experience** : 33 Years

Teaching experience : 33 Years

Industry experience

**Administrative Responsibilities**

1. Head of Department, Civil Engineering Department,
2. Chairman BoS, Dept of Civil Engg.
3. Institute KSCST Coordinator,
4. Institute QIP Coordinator
5. BoS Member, Dept of Civil Engg, SDM College of Engineering Dharwad

**Teaching** : More than 100

**No. of Projects**

**Guided** : More than 50

UG : 70

PG

**Research**

**Interest Area** : Dynamic properties of soils by SASW technique, liquefaction potential

**No. of Research**

**Scholars** : 02

**Pursuing** : 02

1. Sangeetha Parashuram Mulgund, P.B. Kalburgi and P.G. Rakaraddi Optimization of Fenton's process for the treatment of cotton textile wastewater using response surface methodology, Asian Journal of Chemistry. Asian J. Chem. / 2021 / 33(1) / pp 113-119
2. Priyanka Shaka and P G Rakaraddi (2016) "Experimental Study on the Effect of Bio-Enzyme Stabilization on Black Cotton soils and red Soils" International Journal of Innovative Research in Science, Engineering and Technology (An ISO 3297: 2007 Certified Organization) Vol. 5, Issue 8, August 2016
3. Sangameshwar Patil and P.G Rakaraddi (2015) "Improving the load carrying capacity of square footing resting on reinforced sand" IJRET: International Journal of Research in Engineering and Technology Volume: 04 Issue: 04 | Apr-2015.
4. Ravichandra Honnalli , P.G.Rakaraddi (2015) "Improvement of bearing capacity of square footing on compacted pond ash with reinforcement" IJRET: International Journal of Research in Engineering and Technology, Volume: 04 Issue: 07 | July-2015.
5. Shweta N Vantamuril , P.G.Rakaraddi (2015) " Loading, Unloading and reloading on square footing iwith geogrid as a reinforcement" IJRET: International Journal of Research in Engineering and Technology, Volume: 04 Issue: 07 | July-2015.
6. P.G. Rakaraddi and Vijay Gomarsi (2015) "Establishing relationship between CBR with different soil properties" International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308.
7. Geeta A Megur and P G Rakaraddi "A study on stabilization of soil by electrokinetic method" IJRET: International Journal of Research in Engineering and Technology eISSN: 2319-1163 | pISSN: 2321-7308, 2014.
8. Ataulla Attar and Dr P G Rakaraddi "Economical Method of Reducing vibration on Machine Foundation" IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 11, Issue 4 Ver. VII (Jul-Aug. 2014), PP 28-36

9. Basavaraj Hotti, P G Rakaraddi and Sudharani (2014) "Behavior of square footing resting on reinforced sand subjected to incremental loading and unloading" International Journal of Research in Engineering and Technology, Volume: 03 Special Issue: 06 | May-2014 | RRDCE – 2014.
10. Vijaylaxmi.Dharmatti and .P.G.Rakaraddi "An Experimental Study on Vertically Loaded Driven and Cast-In-Situ Piles" IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 11, Issue 2 Ver. III (Mar- Apr. 2014), PP 43-48.
11. Sandeep and P G Rakaraddi "Soil Stabilization Using Waste Shredded Rubber Tyre Chips" Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 11, Issue 1 Ver. V (Feb. 2014), PP 20-27.
12. • Jyant Kumar and P. G. Rakaraddi "SASW evaluation of asphaltic and cement concrete pavements using different heights of fall for a spherical mass" International Journal of Pavement Engineering, 2013, Vol. 14, No. 4, 354–363
13. B.S.Chawhan, S.S.Quadri, and P.G.Rakaraddi "Behavior of lateral resistance of flexible piles in layered soils" Proceedings of the Indian Geotechnical Conference, IGC-2012 December 13-15, 2012, New Delhi, India
14. B.S.Chawhan, S.S.Quadri, P.G.Rakaraddi, "Determination of Ultimate Lateral Loads in Deep Foundation in Multiple Layers of Cohesionless Soils" International Journal Of Computational Engineering Research (ijceronline.com) Vol. 2 Issue. 5, pp1640-1644, 2012.
15. B.S.Chawhan, S.S.Quadri, P.G.Rakaraddi, "Behavior of Lateral Resistance of Flexible Piles in Layered Soils" Journal of Mechanical and Civil Engineering (IOSRJMCE) ISSN : 2278-1684 Volume 2, Issue 5 (Sep-Oct 2012), PP 07-1.
16. Jyant Kumar and P. G. Rakaraddi "Effect of Source Energy for SASW Testing on Geological Sites" Geotech Geol Eng DOI 10.1007/s10706-012-9561-y.
17. Jyant Kumar and P. G. Rakaraddi "On the height of fall of dropping mass in SASW measurements for asphaltic road pavements" International Journal of Pavement

**Conferences :6**

1. *Shravan Konnur and P G Rakaraddi, (2017) "Impact of prestressed geosynthetic reinforced sand bed on the performance of square footing" Indian Geotechnical Conference 2017 GeoNEst 14-16 December 2017, IIT, Guwahati, India*
2. *Gautam Kumar and P.G. Rakaraddi (2015) "Assessment of Liquefaction Susceptibility of Clean River Sand and Fine Sand Using Horizontal Shake Table" International Conference on Geo-Engineering and Climate Change Technologies for Sustainable Environmental Management (GCCT-2015) NIT Allahabad, October 9-11, 2015.*
3. *Noorjahan and Rakaraddi "An experimental study on laterally loaded driven single and group of piles" Indian Geotechnical Conference IGC 2014, Kakinada.*
4. *Shivarajkumar and Rakaraddi "An Experimental Study on Vertically Loaded Under reamed Piles in Sand" Indian Geotechnical Conference IGC 2014, Kakinada.*
5. *Sudharani and Rakaraddi "An experimental study on vertical uplift capacity of piles" Indian Geotechnical Conference IGC 2014, Kakinada.*
6. *Ghosh and Rakaraddi "Behavior of lateral resistance of flexible pile in layered soil", IGC 95, 1995, UVCE Bangalore.*

**Invited Talks : 01**

*Use Numbering for the list with text with justify-font 10*

**Events Organized : 07**

1. *A short term course titled "RCC construction" is conducted on 08<sup>th</sup>-12<sup>th</sup> Jan 2007 at Basaveshwar engineering college, Bagalkot sponsored by NPEEE ministry of home affairs, New Delhi.*
2. *A short term course titled "Masonry construction" is conducted from 22-01-2007*

to 26-01-2007 at Basaveshwar engineering college, Bagalkot sponsored by NPEEE ministry of home affairs, New Delhi.

3. "Design of earthquake resistant structures" a short term course conducted from 26-05-2008 to 30-05-2008 at Basaveshwar engineering college, Bagalkot sponsored by ISTE, New Delhi.
4. Continuing Education Programme (CEP) for departmental engineers on "Expansive soils" on continuing education program (CEP) for departmental engineers sponsored by Staff Engineering College, Krishnarajasagar, Karnataka.
5. "Soil Mechanics and Testing for Roads, Buildings and Irrigation Structures" 10 July -14 July 2017, continuing education program (CEP) for departmental engineers sponsored by Staff Engineering College, Krishnarajasagar, Karnataka.
6. "Soil Mechanics and Testing for Roads, Buildings and Irrigation Structures" 29 Aug -02 Sept 2016, continuing education program (CEP) for departmental engineers sponsored by Staff Engineering College, Krishnarajasagar, Karnataka.
7. "Soil Mechanics and Testing for Roads, Buildings and Irrigation Structures" 07 Sept -11 Sept 2015, continuing education program (CEP) for departmental engineers sponsored by Staff Engineering College, Krishnarajasagar, Karnataka.

**Conferences/  
Symposiums/  
Workshops/  
Training Programs  
Attended** :

1. "Understanding group dynamics" held from 20-06-1996 to 04-07-1996 at University of Roorkee, Roorkee under quality improvement programme.
2. "Induction training programme" held from 03-08-1996 to 23-08-1996 at Karnataka University, Dharwad sponsored by AICTE, New Delhi.
3. "Applications of finite elements in non-linear problems of civil engineering" held from 07-10-1996 to 18-10-1996 at Shri G S Institute of technology and science, Indore sponsored by AICTE, New Delhi.
4. "Highrise structures" held from 23-12-1996 to 03-01-1997 at Indian Institute of Technology, Kharagapur sponsored by AICTE, New Delhi.
5. "Critical state soil mechanics" held from 10-06-1997 to 21-06-1997 at Thapar institute of engineering and technology, Patiala

- sponsored by ISTE, New Delhi.
6. *“Quality control and high performance concrete” held from 20-07-1998 to 01-08-1998 at JNTU, college of engineering, Hyderabad sponsored by ISTE.*
  7. *“Engineering practice in expansive soils” held from 07-02- 2000 to 18-02-2000 at Basaveshwar engineering college, Bagalkot sponsored by AICTE, New Delhi.*
  8. *“Ground improvement techniques” held from 03-03-2000 to 16-03-2000 at Jayachamarajendra College of engineering, Mysore sponsored by AICTE, New Delhi.*
  9. *“Technical education and challenges in new millennium” held from 03-11- 2001 to 04-11-2001 at Basaveshwar engineering college, Bagalkot sponsored by ISTE, New Delhi.*
  10. *“Geotechnical earthquake engineering” held from 14-07- 2003 to 19-07-2003 at Indian Institute of Technology, Madras, Chennai sponsored by NPEEE, New Delhi.*
  11. *“Intellectual property rights” held on 16-04-2004 at Basaveshwar engineering college, Bagalkot sponsored by MHRD, New Delhi.*
  12. *“Advanced earthquake geotechnical analysis” held from 12-07- 2004 to 16-07-2004 at Indian Institute of Technology, Madras, Chennai sponsored by NPEEE, New Delhi.*
  13. *“National programme for capacity building of engineers in earthquake risk management (NPCBEERM)” held from 13-06-2005 to 16-07-2005 at Indian Institute of Science, Bangalore sponsored by NPEEE ministry of home affairs, New Delhi.*
  14. *“Geosynthetics and their applications in infrastructure projects” held from 17-07-2006 to 21-07-2006 at Indian Institute of Technology, Madras, Chennai sponsored by QIP.*
  15. *“Computational techniques for seismic analysis” held from 18-12-2006 to 22-12-2006 at Indian Institute of Technology, Madras, Chennai sponsored by NPEEE, New Delhi.*
  16. *“Engineering seismology and seismic hazard assessment (ESSHA 2007)” held from 12-02-2007 to 16-02-2007 at Indian Institute of Technology, Madras, Chennai sponsored by NPEEE, New Delhi.*
  17. *“Management capacity enhancement programme for administrators” held from 16-20 Nov 2015 at Indian Institute of Management Lacknow, Noida, sponsored by*

management capacity enhancement programme (TEQIP II)

18. "Technology-driven innovation and entrepreneurship" held from 15-19 Feb, 2017 at Basaveshwar Engineering College, Bagalkot under TEQIP-II by IIT Bombay

**Awards and Honors :**

**: Major Contributions in consultancy:**

- 1) Foundation design of various structures
- 2) Surveying: Fixing of alignment for (a) crest gates of Alamatti dam (b) Bridge across Ghataprabha river near Anagawadi (c) Bridge across Krishna river (down stream of Narayanpur dam), near Narayanapur, (d) Suspension bridge across Tungabhadra river near Anegundi near Hospeth (e) Bridge across Tungabhadra river near Mudalgatta, Mundaragi Tq, etc.,
- 3) Soil testing of various bridges includes; across Ghataprabha river near Anagawadi, Krishna river near Kolar, back water of Alamatti dam near Almatti, etc.
- 4) Soil testing for side slope failure of Baluti lift irrigation canal, Chimmulagi lift irrigation canal etc..
- 5) Socioeconomic survey of some of the villages submerged in backwater of Almatti dam.
- 6) Impounding reservoir of drinking water to Manvi town near Manvi.