



Dr Shivakumar Patil

Education

PhD, *Indian Institute of Technology, Madras*, .

MTech, *National Institute of Technology, Warangal*, .

BE, *Basaveshwara Engineering College, Bagalkot*, .

PhD Thesis

- Title *Role of Soil-Structure Interaction in Seismic Response of Massive Masonry Structures*
- Supervisors Professor G. R. Dodagoudar & Associate Professor Arun Menon
- Description This thesis explored the effect of soil flexibility on the dynamic response of massive masonry structures and probabilistic seismic hazard assessment of moderately active seismic zones. In this thesis I also explored the usage of active and passive surface wave techniques for the site characterization.

Publications

Peer Reviewed Journals

- 2018 Patil, S. G., Menon, A. and Dodagoudar G. R. Probabilistic seismic hazard at the archaeological site of Gol Gumbaz in Vijayapura, south India. *Journal of Earth System Science*, 127(2), 1-16 (2018) ISSN 0253-4126,
- 2020 Patil, S. G., Menon, A. and Dodagoudar G. R. Role of Soil-structure interaction in seismic response of massive masonry structures. *Engineering Structures* (Under review)

Conferences

- 2016 Patil, S. G., Dodagoudar G. R. and Menon A. Seismic Input Ground Motions at Historical Site of Vijayapura South India, Sixth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics., IIT Roorkee Extension Center, Greater Noida, India, pp. 1 10.
- 2017 Patil, S. G., Dodagoudar G. R. and Menon A. Active and passive surface wave techniques for site characterization at archaeological site of gol gumbaz vijayapura, south India. *Indian Geotechnical Conference, IIT Guwhati*.

Experience

- 2019–Present **Associate Professor**, BLDEA's VP DR PGH CET, Vijayapura.
Along with Research, Teaching and Learning, I have executed various consultancy projects as a principal investigator.
- 2012–2019 **Research Scholar**, IIT, Madras.
Along with my research involved in consultancy projects
- Jan **Deign Engineer**, STRATA GEOSYSTEM, Bombay.
2011–2012 Involved in the design of Reinforced Earth Soil Wall Design
- July **Research Assistant**, IIT, Bombay.
2010–Dec Involved in dynamic characterization of soil
2010

Software and Tools

ABAQUS, Plaxis, FLAC, ArcGis, L^AT_EX

Languages

, *Kannada, Hindi, English, Telugu*, .