SRINIVAS UNIVERSITY

Mangalore-575001, Karnataka (India)

Srinivas Research Centre for Geotechnical and Structural Engineering

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About the Research Centre

Geotechnical engineering is the branch of civil engineering concerned with the engineering behaviour of earth materials. Geotechnical engineering is very important in civil engineering, but also has applications in various areas like mining, petroleum and engineering disciplines that are concerned with construction occurring on the surface or within the ground. Geotechnical engineering uses principles of soil mechanics and rock mechanics to investigate sub surface conditions and materials and determine the relevant physical or mechanical and chemical properties of these materials and also evaluate stability of natural slopes and man made soil deposits and also design earth works and structure foundations to monitor site conditions, earth work and foundation construction.

Structural engineering is a part of civil engineering in which structural engineers are educated to create the bones and muscle's that create the form and shape of man made structures. Structural engineers needs to understand and calculate the stability, strength and rigidity of built structures for buildings and non building structures. The structural design are integrated with those of other designers such as architect's and building services engineer and often supervise the construction of projects by contractor's on site. Structural engineer theory is based upon applied physical laws and empirical knowledge of the structural performance of the different materials and geometries.

Research areas include important topics of foundation engineering, soil and rock mechanics. Current projects focused primarily on

- Geotechnical design (typically including soil structure interaction, foundation engineering, transportation geo techniques and earthquake engineering.)
- Stability analysis (natural and engineer soil slopes and rock wall)
- Structural engineering:
  Performance based engineering
  Design construction integration
  Engineering and design of sustainable built system
  Earthquake Engineering

Members:

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