

Our Contact

Prof. Amirtham Rajagopal
 Professor
 Department of Civil Engineering
 IIT Hyderabad
 Kandi, Sangareddy – 502285

 +91 40 23016300

 structural.lab@ce.iith.ac.in

 rajagopal@ce.iith.ac.in



We provide Interdisciplinary Support too.

OUR TEAM



- Damage Mechanics
- Fracture Mechanics
- Finite Element and Mesh free methods
- Additive Manufacturing
- Multiscale Modelling



- Damage Mechanics
- Uncertainty Quantification
- Reliability Analysis
- Global Sensitivity Analysis
- Physics-informed Machine Learning
- Stochastic Dynamical Systems



- Wind Energy and Aerodynamics
- Energy Harvesting
- Reliability Engineering/Uncertainty Quantification
- Machine Learning
- Stochastic Dynamical Systems



- Fire and its Effect on Structural Systems
- Design and Behavior of Steel Structures
- Stability of Structural Systems
- Steel-Concrete Composite Systems
- Pre-Engineered Buildings (PEB)
- Structural Design of Facade Systems
- Steel Bridges
- High-rise Steel Buildings
- Collapse Analysis
- Earthquake and Structural Dynamics
- Design of Flexible Structures under Wind Load Conditions, Soil-Structure Interaction



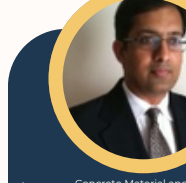
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- Affordable Housing
- Sustainable materials
- Cold-formed Steel
- Structural Steel Design
- Cold-Formed Steel Wall Panels
- Additive Manufacturing
- Materials Processing
- Sustainable Infrastructure
- Circular Economy



- Behavior of Reinforced and Prestressed Concrete Members
- Seismic Retrofitting and Rehabilitation of Structures using FRP Composites
- Earthquake Engineering with focus on development of cyclic models for combined loading
- Precast and Prefabricated Construction



- Concrete Material and Structures
- Structural Health Monitoring
- Material Characterization
- Sensors
- Additive Manufacturing



- Sustainable Cementitious Binders
- Durability and Repair of Concrete Structures
- Multiscale Modelling
- Climate Change
- Waste Management



STRUCTURES LABORATORY

From Material
 Microstructure to
 Megastructure —
 We Engineer it All



Our High End Equipment.

HEICO 12,000 KN



- HEICO Compression Testing Machine with a vertical testing clearance of 2000mm

MTS Pseudo Dynamic Test System



- Hydraulic Actuators having dynamic force capacities of 1000kN & 250kN.
- Testing Speed Ranges from 0.005mm/min to 500mm/min.

MTS Pseudo Dynamic Test System 500 kN



- Two Hydraulic Actuators having dynamic force capacities of 500kN.
- Testing Speed Ranges from 0.005mm/min to 500mm/min.

FTM 500 KN



- Fatigue Testing Machine, $\pm 500\text{kN}$ capacity, capable of fatigue testing of specimen made of cement materials and cement-based structural components, Composite materials and composite-based structural components, reinforced concrete, masonry and steel sections

MTS 250 kN



- High cycle fatigue test
- Low cycle fatigue test
- Environmental testing
- Tension test
- Compression test
- Bending test

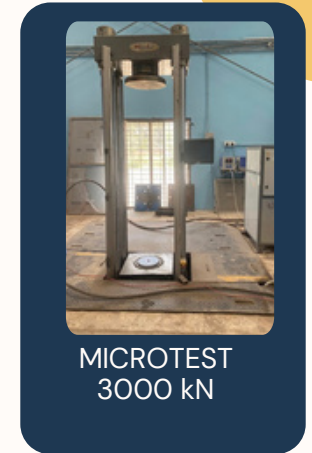
UTM 2000 KN



UTM has wide range of applications test applications. Different types of materials can be tested for a variety of tests like Tension, Compression, Shear, etc.



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5000 KN



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3000 kN

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