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- ***** Material and Structures
- **!** Lightweight concrete
- ***** Fibre Reinforced Concrete
- ***** Ferrocement
- **❖ Solid Waste Management**
- * Removal of Metals from Industrial Wastewater
- **Ground water contamination,**
- **❖** Water Quality Analysis and Modeling,
- **❖** Design of Aerobic and Anaerobic Reactor and its process
- **❖** Water and Wastewater Treatment and Analysis
- ***** Environmental monitoring and remediation



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- ***** Finite Element Analysis
- ***** Fibre Reinforced Concrete
- **Ultra High Performance Concrete**
- ***** Steel Structures



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- ***** Material and Structures
- **Light Gauge Steel Structures**
- ***** Lightweight concrete
- ***** Fibre Reinforced Concrete
- ***** High strength concrete
- **Self-Compacting Concrete**
- ***** Ferrocement
- **Ultra High Performance Concrete**
- **❖ Non Structural Elements**
- **Steel-Concrete Composite Structures**



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- **Light Gauge Steel Structures**
- ***** Finite Element Analysis
- **\Light** Lightweight concrete
- ***** Fibre Reinforced Concrete
- **\(\text{High strength concrete} \)**
- **Self-Compacting Concrete**
- ***** Ferrocement
- **Ultra High Performance Concrete**
- Bacterial Concrete

- ***** Ultra High Performance Concrete
- **Steel Structures**



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- ➤ Mass Housing Technology.
- > Development Of Pre- engineering light weight building Components/Systems.
- ➤ Low Cost Housing Construction using Quick build Panels for cyclone and Earthquake.
- > Reliability Analysis
- > Reinforced Concrete Design
- > Design of Steel Structures.



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- **❖** Material and Structures
- **!** Lightweight concrete
- ***** Fibre Reinforced Concrete
- ***** Ferrocement
- **Self Compacting Concrete**
- **Self Healing Concrete**
- ***** High Strength and High Performance Concrete
- **Steel Concrete Composite Structure**
- ***** Water and Wastewater Treatment and Analysis



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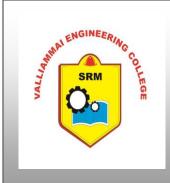
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Areas of Research

- ➤ Site Investigation and Soil Exploration Soil testing, bore log report, determination of bearing capacity and strength parameters.
- > Design of Sub-structures Footing, Raft, Pile foundation, Pier and Abutment.
- ➤ Soil Stabilization / Ground improvement Mechanical stabilization, Chemical stabilization and Hydrological techniques.
- > Slope Stability Analysis of slope and stabilization techniques.
- Design of Earth Retention Structures Retaining walls, Sheet piles and Diaphragm walls.



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- Construction Engineering and management
- Construction materials
- Energy-Water-Environment Sustainability
- Hydraulic Engineering
- Fibre Reinforced Earth Blocks