

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING

RESEARCH PROFILE:

THRUST AREAS:

Structural Engineering

- New Materials (Geo-polymer concrete Basalt fibre concrete, Nanomaterials)
- Non linear dynamic analysis
- Structural Health monitoring using PZT Sensors
- Structural Optimization
- Seismic Resistant designs (Elevated water tanks, Buildings, Chimeys)

Transportation Engineering

- Integrated Transportation Systems
- Pavement materials Characterization
- Pavement design, analysis, evaluation and management
- Traffic Flow analysis and Highway Capacity
- Safety, Accident analysis
- Transport and traffic modelling
- Intelligent Transport systems
- Urban transportation planning

Geotechnical Engineering

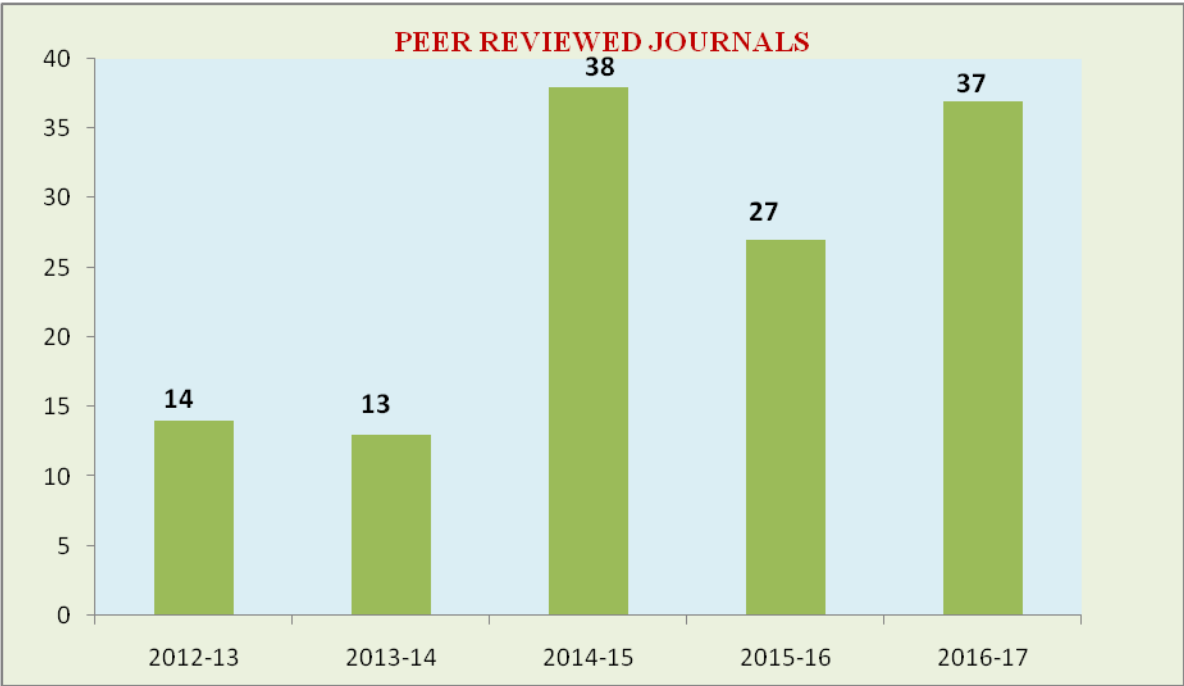
- Ground Improvement techniques
- Static and Dynamic Soil-Structure Interaction

Hydraulics Engineering

- Flood Forecasting
- GIS and Remote Sensing Applications in Water Resources
- Groundwater Hydrology
- Hydrologic Modelling

Environmental Engineering

- Air Quality Monitoring and Modeling, Risk Assessment
- Solid Waste Management
- Emission Inventories, Climate Policy Analysis



Publication Index by faculty