

## Problem Statements Civil Dept.

Email Address	Name of Faculty	Area of Interest/Expertise/ Specialisation	Project statement Bank/Title of project/ Project ideas which can be part of future work of research work. 1) (Topic should not be from last /previous 3 yrs of Project) 2) Expected 10 Topics ( Not restricted)
vsjadhav@git-india.edu.in	Jadhav V S	Structure & Concrete technology	1] Innovative use of wood and steel in concrete / brick buildings 2]Study of paver blocks by introducing new materials in construction 3]Zero energy buildings 4]Mainstreaming of green building technology/concept (socially, economically, technically) 5]Use of architectural features for incorporating green building concepts 6]Failure of foundation due to earthquake 7]Cost Benefit Analysis of Earthquake Resistant Structures 8]Seismic Behavior Analysis Of Different Structures (Buildings, Bridges, Shear Walls, Footing, Masonry) 9]Increasing strength of buildings by introducing new materials in construction (bentonite, marble dust, rice husk, red mud etc) 10]Analysis of Building Codes
gdparulekar@git-india.edu.in	G.D.PARUL EKAR	CONCRETE	1. Use of glass powder in plastering work. 2. Use of cashew nut shell oil for waterproofing of building terrace. 3. Use of jackfruit latex for waterproofing and crack filling work. 4. Replacement of reinforcement steel by Bamboo strips in concrete. 5. Early strength analysis of concrete by chemical process. 6. Use of fly ash in plastering work.
vrkasar@git-india.edu.in	VIVEK RAMCHAN DRA KASAR KOKIL	Water Resource Engineering, Environmental Engineering, Hydraulics Engineering	1) Study of Suspended Loads in Konkan Based River Basin 2) Development of Sampler for Suspended load in River Basin 3) Environmental Impact study in Konkan Based Rivers 4) Environmental Impact Assessments of West flowing Rivers 5) Pollution Mapping of West flowing rivers by Using RS & GIS 6) Flood Mapping of Vashishthi River Basin By Using RS & GIS 7) Prioritisation of Most eroded basin of west flowing rivers by Using HECRAS 8) Soil Erosion Rate variation study of Vashishthi River Basin 9) Development of Predictive models for Soil Erosion in River Basin 10) Mapping of Soil Erosion rates in West Flowing Rivers by Using RS & GIS
nhkoppa@git-india.edu.in	Nagaraj Koppa	Geotechnical Engineering and Foundation Design.	1) Water Retention capacity of Lateritic soil by using Geosynthetic Material 2) Improvement of Soil properties by using Flyash sintered aggregates 3) Water Retention capacity of Lateritic soil by using Bentonite clay 4) Design of stone column at Lateritic soil 5) Stabilization of soil by using Zinc slag 6) Stabilization of soil by using waste Rubber strips
vmmali@git-india.edu.in	Mali V. M.	Structure and Transport	1. Methods to Quantify the Benefits of Pavement Management 2. Improve durability of bitumen road 3. Pre cast construction of light weight slab panel sections 4. Construction of flexible and movable structural components in industry 5. Utilization of night time or hours for making roads etc. 6. Implementation and smooth operation of multiple scanner for fast tag for whole single lane. 7. Reducing speed breakers on highway and implementation of new technology to maintain speed of loaded vehicles.

yrkulkarni@git-india.edu.in	Yogesh Kulkarni	Geology	<ol style="list-style-type: none"> <li>1. Groundwater studies of Lavel village.</li> <li>2. Aquifer potential studies from Konkan region.</li> <li>3. Rock quality designation of small projects.</li> <li>4. RMR studies from slopes of Western ghats: Application to landslide prevention measurements.</li> <li>5. Landslide studies using GIS from Western Ghats</li> <li>6. Morphometric analysis of west flowing river of Konkan region.</li> <li>7. Watershed management studies in rural villages of Konkan region.</li> <li>8. Permeability studies of GIT soil.</li> <li>9. Pumping test of GIT dugwell.</li> <li>10. Water conservation techniques for improvement of water table in lavel village.</li> </ol>
adbhosale@git-india.edu.in	Dr. A. D. Bhosale	Structural Engg.	<ol style="list-style-type: none"> <li>1) Design of steel column by IS Code method and comparison with LRFD method</li> <li>2) Production of Bio-gas by using equaliptus leaves</li> <li>3) Seismic control of structure by using flat bottom TLD</li> <li>4) Seismic control of structure by using slope bottom TLD</li> <li>5) Analysis of high rise structure for investigating optimum position RCC outrigger</li> <li>6) Analysis of high rise structure for investigating optimum position X belt outrigger</li> <li>7) Analysis of high rise structure for investigating optimum position V belt outrigger</li> </ol>
vdkamble@git-india.edu.in	Vaibhav D Kamble	Civil-Environmental Engineering	<ol style="list-style-type: none"> <li>1. Optimization of Pipe Diameter using Software</li> <li>2. Design of Sewage Treatment Plant for City</li> <li>3. Algae Based wastewater treatment</li> <li>4. Low cost wastewater treatment</li> <li>5. In House Wastewater Treatment</li> <li>6. Use of Solid Waste to make paver block</li> <li>7. Study of Air Pollution parameters of surrounding area</li> <li>8. Design of Sewer Network using Softwares</li> <li>9. Use of ANN in Civil Engineering</li> <li>10. Comparison of Solar Pumps with Electrically operated pumps</li> <li>11. Design of Sensor Based Water Distribution System</li> </ol>
sspatil@git-india.edu.in	S S Patil	Construction Management, concrete , geotech, road	<ol style="list-style-type: none"> <li>1) Soil stabilization by using bottom ash</li> <li>2) Soil Stabilization by bed material</li> <li>3) Soil stabilization by using bottom ash and steel slag, fly ash.</li> <li>4) Value addition of bottom ash in flexible pavement</li> <li>5) Value added applications of industrial waste material for improvement of soil stability</li> <li>6) Use of waste material for value added application in Rigid pavement.</li> <li>7) White topping for pothole repairs and option for flexible pavement</li> <li>8) Characterization of industrial waste for application in Rural road construction</li> <li>9) Use of bottom ash and fly ash in paver block manufacturing</li> <li>10) Bituminous concrete value addition by using plastic waste and fly ash.</li> </ol>