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| **LIST OF B.TECH MAJOR PROJECTS FOR CIVIL ENGINEERING** | | |
| **S.NO** | **TITLE** | **STREAM** |
|  | The Performance of high-grade concrete (M60) with full and partial replacement of crushed sand by Granulated Blast Furnace Slag (GBFS) in OPC | CT |
|  | Behavior of M60 Grade concrete with full and partial replacement of Fine Aggregate (River sand) with GBFS in OPC | CT |
|  | Experimental Investigation on Behavior of High-Grade concrete (psc) with full and partial replacement of fine aggregates using GBFS | CT |
|  | Study on mechanical properties of cement mortar by the addition of UREOLYTIC bacteria | CT |
|  | The Performance of high-grade concrete (M60) with full and partial replacement of crushed sand by Granulated Blast Furnace Slag (GBFS) in PPC. | CT |
|  | Behavior of M60 Grade concrete with full and partial replacement of Fine Aggregate (River sand) with GBFS in PPC | CT |
|  | Effects of different curing methods on strength of self-compacting concrete | CT |
|  | Assessment of the suitability of coconut shell as charcoal as filler in stone matrix asphalt | CT |
|  | Experimental study on the replacement of cement by Egg shell powder | CT |
|  | Mixing Ratio in Concrete | CT |
|  | Utilization of Demolished concrete waste for new construction | CT |
|  | Strength properties of concrete by using Rice Husk ash | CT |
|  | Experimental investigation for recycled coarse aggregate replaced for natural coarse aggregate in concrete | CT |
|  | Experimental study on Copper slag as fine aggregates in concrete | CT |
|  | Study on Bamboo as Reinforcement in cement concrete | CT |
|  | Suitability of Brick bats as coarse aggregates in concrete | CT |
|  | Mix design of self compacting concrete | CT |
|  | Workability of self-compacting concrete | CT |
|  | Experimental study on concrete by replacement of cement by glass powder | CT |
|  | Experimental Study Steel fiber Reinforced concrete | CT |
|  | Intermittent curing of M20 and M30 grade concrete | CT |
|  | Experimental study on replacement of fine aggregate by quarry dust in concrete | CT |
|  | Red mud as Partial replacement of cement in concrete | CT |
|  | Laboratory study on soil stabilization using fly ash mixtures | CT |
|  | Partial Replacement of Coarse aggregates by Polystyrene Beds in concrete | CT |
|  | Steel fiber Reinforced concrete | CT |
|  | Study on strength properties of concrete by using polypropylene fibers | CT |
|  | Behavior of Reinforced Concrete Beams with Coconut shells as Coarse aggregates | CT |
|  | Mechanical properties Concrete by using Metakaoline as Cement | CT |
|  | Road Asses management: Evaluation and techniques | TE |
|  | Development and experimentation using a low-cost road roughness device | TE |
|  | Modeling performance parameters of round about using Gap acceptance method for Indian traffic scenario | TE |
|  | A Study on use of polymeric waste materials in concrete for road pavements | TE |
|  | A Comparative study on the properties of pervious concrete for pavement using flyash | TE |
|  | Impact of vehicle pedestrian intersection on traffic flow: Midblock and intersections | TE |
|  | Estimation of service levels of pedestrian facilities using statistical methods | TE |
|  | Development of low cost road roughness measuring device | TE |
|  | A general study on the life cycle cost analysis for roads | TE |
|  | Effects of highway geometric elements on accident modelling | TE |
|  | Study on delay distribution of trains | TE |
|  | Performance analysis of round abouts using empirical method for Indian traffic scenario | TE |
|  | Operational analysis of roundabout under mixed traffic flow conditions | TE |
|  | Pavement Design | TE |
|  | Quality control in high way engineering | TE |
|  | Estimation of Pedestrian level of service alongside walks | TE |
|  | Determination of pedestrian level of service at signalized mid blocks under mix traffic conditions | TE |
|  | Flexible pavement design by CBR method | TE |
|  | Determination of Road Profile in an area | TE |
|  | Analysis of Traffic Flow | TE |
|  | Modelling of direct runoff on recession curve | WRE |
|  | Assessment of ground water quality around landfill using GWQI | WRE |
|  | Determination of contamination in the landfill surrounding using Fuzzy | WRE |
|  | Small Hydropower: Feasible location, potential and installation in ODISHA | WRE |
|  | Study of various methods for the removal of arsenic contamination in ground water | WRE |
|  | Rainfall and runoff estimation using hydrological models | WRE |
|  | Assessment of water resources and management strategies of Brahmani river basin. | WRE |
|  | Impact of climate change on the hydrology of Mahanadi river basin. | WRE |
|  | Drip irrigation Design | WRE |
|  | Irrigation System analysis | WRE |
|  | Preparation of bricks using construction and demolition waste and sludge | EE |
|  | Characterization and Application of Rice Husk for the removal of heavy metals from the Laboratory prepared waste water | EE |
|  | Assessment of water quality on Godavari River using QUAL2K | EE |
|  | Environmental flows detailed assessment of the rivers of the Mahanadi basin | EE |
|  | Water quality improvements using different filter methods | EE |
|  | Removal of heavy metals from the bed sediments of Brahmani river basin | EE |
|  | Removal of turbidity from water using low cost adsorbent | EE |
|  | Experimental study on contaminated groundwater | EE |
|  | Drinking water standards, testing and treatment. | EE |
|  | Sewage analysis and treatment | EE |
|  | Water supply and sanitation study for village | EE |
|  | Thermal analysis of Engineered multi barrier system for hazardous waste management | GT |
|  | Hydraulic conductivity and leachate characteristics of Lime Stabilized fly ash. | GT |
|  | Experimental study for the determination of infiltration rate of soils in field using double ring infiltrometer | GT |
|  | Red mud as a construction material by using bio remediation | GT |
|  | Stabilization of soil using Geopolymer and Bio polymer | GT |
|  | Stabilization of industrial by product using alkali activation | GT |
|  | Study on the effect of agriculture solid waste bagasse ash on the properties of expansive soil. | GT |
|  | Theoretical analysis of soil nailing ,design ,performance and future aspect | GT |
|  | Study of liquefaction of soil | GT |
|  | Usage of Plastic waste for the Soil stabilization | GT |
|  | Study on effect of molasses on strength of soil | GT |
|  | Ground Improvement techniques | GT |
|  | Analysis and design of multistoried residential buildings using conventional method and stad.pro | Struc |
|  | Design and analysis of Hospital Building | Struc |
|  | Effect of Earth quack load and wind load on Residential Building By ETABS | Struc |
|  | Lateral Load Resisting System Of Building By Using Different Types Of Bracings By ETABS | Struc |
|  | Circular Water Tank Design By STAAD PRO | Struc |
|  | Shear Wall Design By Using STAAD PRO | Struc |
|  | Auditorium Design By STAAD PRO | Struc |
|  | Earth quack Resistant Building Design By Using Dampers | Struc |
|  | Non-Linear Dynamic analysis of Multi story Building | Struc |
|  | Effect of wind load on different terrain categories | Struc |
|  | Analysis and design of Building for different Plan configuration | Struc |
|  | Dynamic response of High Rise structures under influence of Shear walls | Struc |
|  | Comparison study of lateral load resisting systems of multistoried building by considering high seismic zone | Struc |
|  | Apartment Building design by STAAD PRO | Struc |
|  | G+21 story Building design by STAAD PRO | Struc |
|  | Single Column Building Design By STAAD PRO | Struc |
|  | Rubber isolator Building design | Struc |
|  | Estimation and costing of a G+5 building | E&C |
|  | Estimation and costing of General 2BHK Building | E&C |

**Terminology:**

**CT Concrete Technology**

**WRE Water Resource Engineering**

**GT Geotechnical Engineering**

**E&C Estimation and Costing**

**TE Transportation Engineering**

**STRUC Structures**