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## CIVIL MTECH PROJECT LIST

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| **Sl.no** | **SIMULATION** | **ANALYSIS AND DESIGN** |
| 1. | Analysis and design of High Rise building frames | STAAD PRO |
| 2. | Dynamic analysis of Residential Building in Zone2 and zone5 | ETABS v9.7.4 |
| 3. | Analysis and design of G+6 Building in different seismic zones of india | STAAD PRO |
| 4. | Analysis of G+30 Highrise buildings by using Etabs for various frame sections in ZoneIV and ZoneV | ETABS v9.7.4 |
| 5. | Retrofitting of reinforced concrete frames using steel bracings | ETABS v9.7.4 |
| 6. | Structural analysis of a multi-storeyed building for different plan configurations | ETABS v9.7.4 |
| 7. | Analysis and design of multi storied building | ETABS v9.7.4 |
| 8. | Comparison of analysis and design of regular and irregular configuration of multi story building in various seismic zones and various types of soils | STAAD PRO  ETABS v9.7.4 |
| 9. | Design of circular water tank | STAAD PRO |
| 10. | Design of residential apartment building | STAAD PRO |
| 11. | Structural design of concrete structure | ETABS v9.7.4 |
| 12. | Analysis and design of multistory building with grid slab | ETABS v9.7.4 |
| 13. | Effect of wind load on tall buildings in different terrain category | ETABS v9.7.4 |
| 14. | Earth quack analysis of multi storied residential building-a case study | ETABS v9.7.4 |
| 15. | Seismic performance evaluation of RC building connected with and without X-Braced friction Dampers | ETABS v9.7.4 |
| 16. | Dynamic response of high rise structures under the influence of shear walls | ETABS v9.7.4 |
| 17. | Study of behavior of seismic evaluation of multistoried building with floating columns | ETABS v9.7.4 |
| 18. | Planning and design of the main building of five star hotel | STAAD PRO |
| 19. | Analysis and design of tall building subjected to wind and earthquake loads | ETABS v9.7.4 |
| 20. | Effect of wind on tall building frames-influence of aspect ratio | STAAD PRO |
| 21. | Seismic analysis of regular and vertical geometric irregular Rcc framed building | STAAD PRO |
| 22. | Comparison of seismic behavior of a typical multi-storey structure with composite columns and steel columns | ETABS v9.7.4 |
| 23. | Dynamic analysis of multi-story building for different shapes | ETABS v9.7.4 |
| 24. | Study of lateral load resisting systems of variable heights in all soil types of high seismic zone | ETABS v9.7.4 |
| 25. | Shear wall analysis and design optimization in case of high rise buildings | ETABS v9.7.4 |
| 26. | Seismic analysis of a building | ETABS v9.7.4 |
| 27. | Comparative study of static and dynamic seismic analysis of multistoried RCC building | ETABS v9.7.4 |
| 28 | Design and analysis of multi storeyed building under static and dynamic loading conditions | ETABS v9.7.4 |
| 29. | Earthquake resistant design of open ground storey building | ETABS v9.7.4 |
| 30. | A comparative study on Rcc structure with and without shear wall | SAP2000 V19 |
| 31. | Analysis and design of multi storied building for vertical and horizontal loading with and without dampers | SAP2000 V19 |
| 32. | Comparative analysis of G+1 structure with and without floating column | SAP2000 V19 |
| 33. | Non-linear pushover analysis of flat slab building | SAP2000 V19 |
| 34. | Non linear static analysis for Rc framed residential building | SAP2000 V19 |
| 35. | A case study on inelastic seismic analysis of six storey Rc building | SAP2000 V19 |
| 36. | Comparison between seismic analysis and non-seismic analysis of G+17 building | SAP2000 V19 |
| 37. | Analytical study of braced unsymmetrical Rcc building | SAP2000 V19 |
| 38. | Seismic evaluation of irregular structures | SAP2000 V19 |
| 39. | Behavior of symmetric and asymmetric structure in high seismic zone | SAP2000 V19 |
| 40. | Dynamic analysis of industrial steel structure by using bracings and dampers under wind load and earthquake load | SAP2000 V19 |
| 41. | Dynamic analysis of multi-storey Rcc building | SAP2000 V19 |
| 42. | Non-linear time history analysis of tall structure for seismic load using damper | SAP2000 V19 |
| 43. | Analysis of G+20 RC building in different zones | ETABS v9.7.4 |
|  | **CONCRETE PROJECTS** | |
| 1. | Study And analysis of concrete strength parameters using Red mud as a partial Replacement of binder content with and without Hydrated Lime | |
| 2. | An Experimental Study On Rubberized Concrete | |
| 3. | Experimental study on properties of strength and durability of concrete by partial replacement of fine aggregate with copper slag and cement with egg shell power for M30 and M40 grade of concrete | |
| 4. | Experimental investigation on strength and durability parameters of concrete replacing cement by glass powder in concrete with different dosages for M25 and M30 grade concrete | |
| 5. | Effect of nano silica on the compressive strength of concrete | |
| 6. | Stress-strain behavior of confined normal grade concrete | |
| 7. | Experimental investigation on partial replacement of cement with dolomite powder | |
| 8. | Behavior of geopolymer concrete | |
| 9. | Study of concrete made using fly ash aggregates | |
| 10. | Mechanical behavior of self compacting and self curing concrete | |
| 11. | An experimental investigation on mechanical properties of concrete with grapheme oxide | |
| 12. | Effect of different steel fibers on strength parameters of self compacting concrete | |
| 13. | Partial replacement of cement by ground granulated blast furnace slag in concrete | |
| 14. | Effect of fiber length and percentage of sisal on strength of concrete | |
| 15. | Strength and permeability properties of concrete using fly ash, Rice husk ash and egg shell powder | |
| 16. | Effect of replacement of natural sand by manufactured sand on the properties of cement mortar | |
| 17. | Utilization of demolished concrete waste for new construction | |
| 18. | Experimental study on geo polymer concrete by using glass fibers | |
| 19. | A study on behavior of marble dust in concrete pavement | |
| 20. | The suitability of crushed over burnt bricks as coarse aggregates for concrete | |
| 21. | Experimental investigations of coarse aggregate recycled concrete | |
| 22. | Experimental investigation on strength of glass power replacement by cement in concrete with different dosages | |
| 23. | Partial replacement of coarse aggregates by expanded polystyrene beds in concrete | |
| 24. | Improvement of strength of concrete with partial replacement of coarse aggregates with coconut shell and coir fibers | |
| 25. | Application and properties of fiber reinforced concrete | |
| 26 | Strength and durability properties of concrete with partial replacement of cement with metakaolin and marble dust | |
|  | **TRANSPORTATION ENGINEERING** | |
| 1. | A detailed study of CBR method flexible pavement design | |
| 2. | A study on the performance of flexible pavements | |
| 3. | National Highway Design-A case study of kadapa to Kurnool National highway | |
| 4. | Designing pavement for a typical village road in india-A case study | |
| 5. | Design of flexible pavements by various methods and their cost analysis of each method | |
| 6. | Pavement design | |
| 7. | Recycled asphalt pavement mixtures for road construction | |
| 8. | Study of stone matrix asphalt for the flexible pavement | |
| 9. | Application of waste plastic as an effective construction material in flexible pavements | |
| 10. | Influence of coarse aggregates shape factors on bituminous mixtures | |
| 11. | Feasibility of copper slag-fly ash mix as a road construction material | |
|  | **GEOTECHNICAL ENGINEERING** | |
| 1. | Improvement in CBR value of soil reinforced with jute fibers | |
| 2. | Improvement of soil stability using shredded Tyre | |
| 3. | STABILIZATION OF SOIL USING Rice Husk Ash | |
| 4. | Theoretical analysis of soil nailing, design, performance and future aspects | |
| 5. | Improvement of soil characteristics using jute geo textile | |
| 6. | Laboratory study on soil stabilization using fly ash mixtures | |
| 7. | Soil stabilization using waste fiber materials | |
| 8. | Usage of plastic waste for the stabilization of soil | |
| 9. | Response of Pile Group against Cyclic Lateral Loads | |
| 10. | A case study of piling project and testing | |

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