

CIVIL ENGINEERING M. TECH PROJECT LIST

Design Projects	
1	Effect of wind load on low, medium, high rise buildings in different terrain category
2	Comparison study of lateral load resisting systems of multistoried building by considering high seismic zone
3	Design of a structure supported on a single column and there cost comparison with normal building
4	Failure control of a skyscraper using different methods of retrofitting
5	Effect of supplemental damping on LRB and FPS seismic isolators under near-fault ground motions
6	Analysis and design of skyscraper building of G+60 stories in all seismic zones.
7	Analysis and Static and dynamic analysis of multi storied building with different shapes in different zones
8	Comparison study of lateral load resisting systems of multistoried building by considering high seismic zone
9	Non linear dynamic analysis of g+25 building by using different types of seismic zones and different soil conditions
10	Analysis and Design of Underpass RCC Bridge By STAAD Pro V8i Software
11	Comparative pushover analysis of rcc, steel and composite high rise building frame (g+11) by using etabs.
12	Analysis and design of multi story buildings for various plan irregularities
13	Comparative study on rcc building and steel building by using sap2000
14	Analysis of rcc bridge with isolation systems by using sap2000
15	Comparative study of rcc structures with and without shear walls in regular and irregular buildings

16	Comparative study of unsymmetrical buildings with and without dampers by ETABS V9.7.4
17	Analysis and design of multi story building on sloping ground and flat ground by using ETABS
18	Effect of the position and number of friction dampers on the seismic response of an symmetric building
19	Dynamic response of high rise structures and analysis of regular and irregular building under the influence of shear walls
20	Dynamic analysis and effect of shear wall on various design parameters of a multi story building
21	Push over analysis of elevated water tank by using SAP 2000
22	Analysis and design of g+30 building using ETABS in zone iv and zone v
23	Seismic analysis and designing of multi story building with floating columns by construction sequence analysis by using ETABS
24	Analysis of soft story building with different percentages of shear walls by using etabs software
25	Design and analysis of regular and vertical genetic irregular building by using e-tabs
26	Studies on seismic resistance of rcc frames with infill walls
27	Seismic analysis of rcc building with shear wall at different locations using staad pro
28	Comparative study on seismic behavior of G+7 steel building by using Dampers and steel bracings
29	Seismic behaviour of reinforced concrete building under varying frequency contents
30	Analysis of steel frames using direct analysis method by using staad pro v8i software

31	Analysis and design of shear walls for earth quake resistant buildings using etabs
32	Response spectrum analysis of G+6 building with and without wall load
33	Analysis and design of rc tall building subjected to wind and earthquake loads
34	Seismic analysis for irregular RCC structures by using cross bracings
35	Comparative analysis of earth quack resistant building design by using bracings and shear wall system in ETABS software
36	Comparative analysis and designing of flat and grid slab system with conventional slab system by ETABS
37	Seismic analysis of high rise building with and without floating columns
38	Analysis of g+30 high rise buildings by using ETABS for various frame sections in zone iv and zone v
39	Effect of diaphragm discontinuity of multi story building by ETABS Software
40	Base isolation system and energy dissipating system in earthquake resistant building design
41	Analysis and designing of g+18 tall building subjected to earth quake load and wind load
42	Analysis of G+6 building for different seismic zones in INDIA
43	Pushover analysis of G+4 building by using ETABS Software
44	Comparison of seismic behavior of a structure with composite columns and steel columns by using ETABS Software
45	Response spectrum analysis of g+5 building by using ETABS software
Materials projects	

46	Effect of nano silica on strength and durability of M40 Grade concrete
47	Study on strength and durability of by using demolished concrete waste as replacement to the coarse aggregates
48	Study of strength and durability parameters of concrete made using fly ash aggregates
49	Strength and durability of concrete by using silica fume and GGBS
50	Characteristics of concrete by using various types of steel fibers
51	Strength and Durability Characteristics of Fibre Reinforced self compaction Concrete
52	Strength characteristics of concrete by using HYPO SLYDGE project
53	Self curing of concrete by using poly etylene glycol
54	Utilization and experimental investigation of waste foundry sand and metakaolin in concrete mix
55	Durability studies on ternary blended concrete
56	Strength characteristics of concrete by replacing natural sand by m-sand for m25 and m30 grade concrete
57	Bacterial concrete and effect of different bacteria on the strength and durability
58	Mechanical properties of high strength concrete by using silica fume and nano alumina
59	Study on strength properties of concrete by partial replacement of cement by municipal solid waste
60	Experimental investigation on strength and durability properties of m30 grade concrete by partial replacement of cement by marble powder and addition of steel fibers
61	Strength and durability study of geopolymer concrete by using ggbs, rice husk ash, and m-sand

17	Strength analysis of concrete by partial replacement of cement by Fly ash and sand by GBFS
18	Effect of replacement of fine and coarse aggregates in short term properties of self compacting concrete
19	Experimental study on strength properties of concrete by partial replacement of cement by wood powder and glass powder
20	Fly ash based geopolymer concrete and replacement of sand with quarry stone dust (QSD)
21	Durability study on metakolin based geopolymer concrete
22	Strength Studies on Geopolymer Concrete Produced with recycled coarse aggregates and Quarry dust
23	Feasibility of usage of bamboo as reinforcement in beam column joints
24	A Brief Study on the Strength Properties of Modified Concrete using Light Expandable Clay Aggregate (LECA)
25	Micro Structure Analysis of GPC cured under ambient conditions
26	Strength performance of m30 grade E- waste cement concrete with ground granulated blast furnace slag (ggbs)
27	Strength Performance Studies on M30 Grade E-Waste Cement Concrete with Silica fume
28	A study on strength properties of concrete replacing Coarse aggregates by Recycled coarse aggregates
29	Effect of strength and durability properties of concrete by using waste wood powder as partial replacement of cement
30	Study and analysis of concrete strength parameters using red mud as partial replacement of cement with and without hydrated lime

31	Comparitive studies on axially loaded steel tubular stub concrete column with and without shear keys
32	Study of concrete made using flyash aggregates
33	Experimental studies on steel fibre reinforced concrete with marble dust as partial replacement of cement
34	Study on strength parameters of concrete using Red mud as a partial Replacement of binder content with and without Hydrated Lime
35	Durability study on self compacting concrete by using steel fibers and M Snad
36	An experimental study on mechanical properties of concrete by using graphene oxide
37	Study and analysis of concrete strength parameters with and without hydrated lime
38	Strength and durability of concrete by using fly ash rise husk ash and egg shell powder as partial replacement of cement
39	Study on strength and durability of concrete by using glass powder (gp) and municipal solid waste (msw)

STRUCTURAL ENGINEERING

1. Feasibility study of recycled plastic waste as fine aggregate in concrete
2. Investigation on Mechanical properties of M20 grade concrete with partial replacement of crumb rubber & M sand for fine aggregate and fly ash for cement
3. Assessment of inhibiting efficiency of organic and inorganic corrosion inhibitors in concrete
4. Study on workability and strength of M35 Grade SCC by using plastic waste as fine aggregates with and without alccofine material.
5. EXPERIMENTAL STUDY ON LIGHT TRANSMITTING CONCRETE
6. STUDY ON MECHANICAL PROPERTIES OF BENDABLE CONCRETE
7. Comparison of strength properties of glass fiber reinforced concrete at elevated temperatures
8. Experimental study on strength and durability of 8M geopolymer mortar based on fly ash and GGBS
9. Study on strength of concrete by using municipal solid waste
10. Study on strength and durability properties of steel fibre reinforced self compacting concrete
11. Experimental studies on mechanical properties of polypropylene fibre
12. Experimental Investigation on Durability Tests of Alccofine and Fly Ash Based GPC
13. Experimental investigation on structural elements of low-calcium fly ash and slag based geopolymer concrete
14. Usage of glass fibre rebar as a retrofitting material in concrete structures
15. Study on strength and micro structural properties of Ternary based geopolymer concrete
16. Effect of basalt fibre on the mechanical properties of m70 grade high performance concrete
17. Analytical study on corrosion assessment of steel flat using emi technique
18. Study on strength and durability properties of steel fibre reinforced self compacting concrete
19. Experimental study on geopolymer concrete by using glass fibers
20. Experimental studies on steel fibre reinforced concrete with marble dust as partial replacement of cement
21. Effectiveness on mechanical properties of M60 grade Self-Compacting Concrete with Partial replacement of Cement by different mineral admixtures like GGBS, Lime powder and Metakaolin at various percentages

DESIGN PROJECTS

1. A project on seismic efficiency of combination of bracing for steel building using etabs
2. Non linear time history analysis of tall building for seismic load using dampers
3. Comparative analysis of behaviour of horizontal and vertical irregular buildings with and without using shear walls by etabs software

4. Comparative analysis of dia grid building in different seismic zones
5. Seismic analysis of G+7 RCC Building with shear walls at different locations
6. Study on G+6 building with different plan irregularities by staad pro software
7. Comparative study of RCC Building with composite columns and steel columns by ETABS software
8. Comparative analysis of earth quack resistant structure by using bracings and shear walls by ETABS software
9. Effect of diaphragm discontinuity on multi storey building by etabs
10. Comparative analysis of G+5 building by using different zones in INDIA
11. Seismic analysis of flat slab system and grid slab system and comparison with normal slab systems
12. Effect of wind load and seismic load on tall buildings by ETABS Software
13. Comparative Seismic analysis of floating column building and normal column building by staad pro software
14. Base isolation and energy dissipating system in earth quack resistant structure design
15. Failure control of skyscraper using different methods of retrofitting.

B. TECH MAJOR DESIGN PROJECTS

1. Dynamic response of high rise structures and analysis of regular and irregular building under the influence of shear walls
2. Effect of Diaphragm discontinuity on multi story building by ETABS
3. Circular water tank design by Staad Pro
4. Base isolation system and energy dissipating systems in earthquake resistant design
5. Analysis and design of RC tall building subjected to Wind and earthquake loads
6. Analysis and designing of Cantilever Retaining wall by STAAD Pro Software
7. Transmission tower design by STAAD Pro
8. Analysis of UNDER GROUND RECTANGULAR WATER TANK
9. Analysis and design of multi story irregular building on sloping ground and flat ground by using ETABS
10. Shear wall design by STAAD Pro V8i Software
11. Intez water tank design by STAAD Pro V8i Software
12. Analysis and design of G+6 building for different seismic zones in India
13. Effect of wind load on G+8 building buildings in different terrain category
14. Dynamic analysis of RCC multi-storey framed structure with different plan configurations
15. Response spectrum analysis of G+5 building by using ETABS Software
16. Seismic evaluation RCC multi story building by using steel bacings
17. planning and designing of Apartment building by ETABS
18. Commercial building by using staddpro
19. Comparative study on Composite column building with RCC building

20. Analysis and design of vertical set back building by ETABS
21. Effect of bracing systems on seismic behavior of typical RCC Building
22. Push over analysis of Multi story Building
23. Seismic analysis of high rise building with and without floating column
24. Seismic analysis of Multi story Building by ETABS V 9.7.4
25. Analysis and design of multi story building with and without Grid slab
26. Analysis and design of single column building by STAAD Pro
27. Seismic performance evaluation of RC building connected with Different types of Bracings (X, V, inverted V)
28. Effect of wind on tall building frames-influence of aspect ratio
29. Seismic analysis of RCC structures under different soil conditions
30. Comparative study of response of multi story structure with different column shapes and orientations
31. Base isolation system and energy dissipating systems in earthquake resistant design
32. The control of building motion of unsymmetrical building with the help of dampers by using ETABS
33. Behavior of symmetric and asymmetric structure in high seismic zone
34. Studies on seismic resistance of RCC frames with Infill walls
35. Analysis and design of Earth quack resistant structure design by using Steel bracings and shear walls at different locations.
36. Comparison between seismic analysis and non-seismic analysis of G+7 building
37. Failure control of a skyscraper using different methods of retrofiting
38. Effect of wind load on low, medium, high rise buildings in different terrain category

39. A study on analysis of RC multistoried building (g+6) in different seismic zones and different wind speed
40. Seismic analysis of multi storey building of I-shaped in zone 3 & 5
41. Time history analysis of unsymmetrical multi storey building and comparative study of displacement
42. Case study on Recycling materials in concrete
43. A case study on green buildings in India
44. Analysis and design of Earth quack resistant structure design by using Steel bracings and shear walls at different locations.

MATERIALS PROJECT LIST

1. Study on workability and compressive strength of Self compacting concrete by using plastic waste as aggregates.
2. Retrofitting of concrete structures with fiber reinforced polymers.
3. Effect of molarities on strength characteristics of geopolymer mortar based on fly ash and GGBS.
4. Study on compressive strength of M25 grade concrete by using corn fiber.
5. Behavior of steel fiber reinforced ternary blended concrete subjected to elevated temperatures.
6. A review on correlation of traffic volume with accidents
7. Study on strength characteristics of concrete by using fly ash, GGBS and dead animal bone aggregates
8. Evaluate the Root of Accident & Suggest Remedies on National Highways in line of Geometric Design Parameters of IRC Codes.
9. Durability study on self compacting concrete by using recycled coarse aggregates
10. Mechanical properties of concrete by using rubber chips as coarse aggregates replacement in M20 Grade concrete.
11. Optimization of aggregate gradation and its influence on properties of M 30 grade concrete by using M Sand.

12. Comparative Study On Soil Parameters & Their Effect On Shear Strength In Warangal city.
13. Mechanical properties of polypropylene fiber reinforced M30 grade concrete.
14. Effect Of U Turns On Capacity Reduction At Signalized Intersection.
15. A brief study on new generation concrete by replacement of cement with marble powder along with acid resistance studies
16. A Review on Usage of Waste Plastic in Bitumen Mixes in Cold Climate Areas
17. Study on the behaviour of fly ash based geo polymer concrete with 20molar NaOH activator.
18. Acid resistance and sulphate resistance studies on M30 grade concrete by using demolished concrete waste.
19. Water quality assessment using physico chemical characteristics of lake water
20. Experimental study on compressive strength of geopolymer mortar by different mix ratios.
21. Characteristics of black cotton soil and red soil & design of flexible pavement
22. Experimental investigation on compressive strength and durability of M25 grade concrete by using brick powder as cement.
23. Effect of water cement ratio on concrete made with brick aggregates
24. Experimental study on contaminated groundwater
25. Improvement of geo technical properties of fine grained soil by using chemical stabilization.
26. Design of flexible payments by different methods and there cost analysis.
27. Study on geotechnical properties of cohesive soil by using cement as replacement.
28. Effects of leachate on groundwater due to municipal solid waste landfill of district, Warangal, Telangana.
29. Comparative study on shear strength of unsaturated red clay and expansive soils
30. An Experimental study of Expensive soil stabilized with fly ash and plastic waste.
31. Characterization of Sewage and Design of Sewage Treatment Plant
32. Study on the properties of black cotton soil by using rice husk ash.
33. Influence of Subsoil Conditions on the Design and Performance of Flexible Pavements.

34. Comparative Study of the Cement and Rock dust for Stabilization on the Engineering Properties of Soil.
35. Study on Bio-concrete for flexible pavements
36. Utilization of soil stabilization with cement and copper slag as sub grade materials in road embankment construction
37. Design of flexible pavements by CBR method and group index method
38. Application of waste plastic as an effective construction material in flexible pavements
39. Influence of coarse aggregates shape factors on bituminous mixtures
40. Study on strength parameters of concrete using Red mud as a partial Replacement of binder content
41. Effect of compressive strength strength and durability properties of concrete by using waste wood powder as partial replacement of cement.
42. Comparative study on flexural strength of M30 grade concrete by using Electronic waste as coarse aggregates.
43. A study on strength properties of concrete replacing Coarse aggregates by Recycled coarse aggregates
44. A Brief Study on the Strength Properties of Modified Concrete using Light Expandable Clay Aggregate (LECA)
45. Strength Studies on Geopolymer Concrete Produced with recycled coarse aggregates
46. Effect of replacement of fine and coarse aggregates in short term properties of self compacting concrete
47. Study of strength parameters of concrete made using fly ash aggregates
48. Study on the Drinking water standards for samples collected from Narsampet (Minimum 5 Samples).
49. Experimental study on the replacement of cement by Egg shell powder
50. Partial replacement of coarse aggregates by expanded polystyrene beds in concrete
51. Study on strength of concrete by using municipal sewage as cement
52. Study on Intermittent curing of M20 and M30 grade concrete
53. A study on black cotton soil stabilized with coconut coir and fly ash- comparison