**Details of Best Project**

The list of project works for 2015 -2019 batch is given below:

|  |  |  |
| --- | --- | --- |
| **2015 – 2019 BATCH PROJECT WORK** | | |
| **SL.NO** | **YEAR** | **PROJECT TITLE** |
|  | 2019 | Structural evaluation of existing flexible pavements in GCT campus using Benkelman beam deflection method. |
|  | 2019 | GIS based spatial analysis of soil in Coimbatore region. |
|  | 2019 | Infiltration rate and compressive strength of pervious concrete |
|  | 2019 | Analysis and design of circular overhead water tank at GCT campus. |
|  | 2019 | Design of anaerobic digester for biogas production in GCT campus. |
|  | 2019 | Effect of Foundry sand on rigid pavement. |
|  | 2019 | Strength and consolidation characteristics of soft clay using pre fabricated vertical drains, M-sand and Eco sand |
|  | 2019 | Experimental investigations on strength of fly ash brick masonry wall. |
|  | 2019 | Study on Flexural strength of self curing concrete using recycled fine aggregate. |
|  | 2019 | Planning, analysis and design of Earthquake resistant Multi-storied apartment building. |
|  | 2019 | Planning, analysis and design of Industrial building. |
|  | 2019 | Study on behavior of building with roof top tower |
|  | 2019 | Seismic assessment and strengthening of existing apartment building at Coimbatore. |
|  | 2019 | Analysis, design & estimation of hostel building. |
|  | 2019 | Planning, analysis, designing and estimation of residential building with green building concept. |
|  | 2019 | Analysis and design of multi-level car parking structure, D.B road R.s puram coimbatore |
|  | 2019 | Mitigation structures for sea water intrusion in Thamirabarani river, Tamil Nadu, India |
|  | 2019 | Planning, analysis, design and estimation of shopping mall |
|  | 2019 | Planning, analysis and design of Apartment building. |
|  | 2019 | Experimental study on the strength of Geopolymer concrete with bamboo fibres |
|  | 2019 | Design and analysis of multi storey building in single column. |

The department selects the best two Projects every year by the external member from academy and industry based on Innovation, Industrial applications, Social relevance, Environmental and Ethics.

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| --- | --- | --- |
| **SL.NO** | **YEAR** | **PROJECT TITLE** |
|  | 2019 | GIS based spatial analysis of soil in Coimbatore region. |
|  | 2019 | Design of anaerobic digester for Biogas production in GCT campus |

The list of project works for 2016 -2020 batch is given below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **2016 – 2020 BATCH PROJECT WORK** | | | **POs** | **PSOs** |
| **SL.NO** | **YEAR** | **PROJECT TITLE** |  |  |
|  | 2020 | Planning and scheduling of PEB structure for a coil manufacturing unit | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Mechanical properties and life cycle assessment of self-compacting concrete with replacement of m sand by eco sand | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Performance analysis of modified cellulose acetate membrane for the treatment of oily wastewater | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Consolidation properties of soft clay stabilized with industrial waste materials | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Experimental study of unconnected piled raft with varying cushion bed under vertical and combined loading | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Analysis of water quality index of ground water at GCT campus | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Experimental investigation on strength behaviour of concrete by using polypropylene fibre | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Synthesis, characterization and application of zinc sulfide-silver doped nano composite | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Em fermented kitchen waste compost | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Effects of biochar amendment on geotechnical properties of clay | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Soil stabilization using biochar and lime | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Study on effects of corrosion inhibitor in the mechanical properties of Portland pozzolana cement concrete | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Behaviour of Portland slag cement concrete incorporating corrosion inhibitor | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Experimental study on self-compacting concrete using ground granulated blast furnace slag(GGBS) | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Performance study on light weight aggregate concrete with polypropylene fibre using artificial neural network and environmental impact assessment | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Study on concrete by partial replacement of cement with marble dust powder and coarse aggregate with coconut shell | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Experimental study on interlocking concrete paver blocks using fly ash and coconut fibre | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Planning, analysis and design of school building | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Planning analysis and design of closed auditorium | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Energy performance in building | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Assessment of Artificial groundwater recharges zones using Geographical Information System. | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Study on the behaviour RC beams strengthen by using hybrid FRP laminates of varying widths | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Performance study on self-curing concrete with recycled fine aggregate and Portland pozzolana cement | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Assessment of ground water quality for drinking purpose in dharmapuri district ,Tamil Nadu | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Design of Sewage treatment plant in GCT campus. | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Inplace analysis of jacket offshore structure | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Experimental investigation on properties of geo-polymer bricks | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Noise quality monitoring at GCT campus | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |

The department selects the best three Projects every year by the external member from academy and industry based on Innovation, Industrial applications, Social relevance, Environmental and Ethics.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.NO** | **YEAR** | **PROJECT TITLE** | **POs** | **PSOs** |
|  | 2020 | Assessment of Artificial groundwater recharges zones using Geographical Information System. | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Experimental study of unconnected piled raft with varying cushion bed under vertical and combined loading | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2020 | Performance study on light weight aggregate concrete with polypropylene fibre using artificial neural network and environmental impact assessment | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |

The list of project works for 2017 -2021 batch is given below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **2017 – 2021 BATCH PROJECT WORK** | | | **POs** | **PSOs** |
| **SL.NO** | **YEAR** | **PROJECT TITLE** |  |  |
|  | 2021 | Design and analysis of energy efficient marriage hall | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Sustainable building design | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Planning and design of water treatment plant in sathyamangalam township | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Stability analysis of railway embankment in thondaimanpatti using root reinforced system | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Effect of biochar and steel slag on shear strength characteristics of low compressible soil | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Planning, analysis and design of hostel building with rainwater harvesting structures | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Planning, analysis, design of residential building with green building concept | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Synthesis and characterization of nano material from activated carbon and its application in removal of chromium | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Optimization of replacement of fine aggregates in concrete with recycled fine aggregate | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Vertical load carrying capacity of the root caisson foundation using abaqus | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Experimental study on landfill liners using black cotton soil mixes | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Planning, analysis and design of residential building with green building requirements | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Planning, analysis and design of residential building with zero energy consumption | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Comparative study on mechanical and durability properties of basalt and brass coated steel fibre reinforced concrete | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Experimental investigation on basalt fibre reinforced self compacting concrete | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Planning and analysis of zero energy building | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Analysis and design of apartment building with floating column | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Design and estimation of anaerobic digester for biogas plant using food waste at GCT campus | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Experimental investigation on fibre reinforced concrete using industrial by-products | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Stabilisation of black cotton soil using phosphogypsum | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Study on acoustical characteristics of an auditorium building | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Planning, analysis, design and estimation of railway station building in perambalur | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Assessment of soil properties from coir pith waste dump yard | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Effect of addition of nano silica and polypropylene fibre on the CBR value of the clay soil | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Life cycle assessment of residential building by using GaBi software | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Planning, analysis and design of Pre- Engineered building for Aircraft hangar. | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Stabilization of road embankment by using polypropylene fibre | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Parametric study of fixed jacket platform of windmill under varying leg configuration | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Inplace analysis of jacket structure | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Assessment of groundwater quality in SIPCOT industrial area, perundurai, Tamil Nadu | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |

The department selects the best three Projects every year by the external member from academy and industry based on Innovation, Industrial applications, Social relevance, Environmental and Ethics.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SL.NO** | **YEAR** | **PROJECT TITLE** | **POs** | **PSOs** |
|  | 2021 | Synthesis and characterization of nano material from activated carbon and its application removal of chromium. | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Planning, analysis and design of Pre- Engineered building for Aircraft hangar. | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |
|  | 2021 | Lifecycle assessment of residential building by using GaBi software | 1,2,3,4,5,6,7,  8,9,10,11,12 | 1,2,3,4 |