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Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, TELANGANA, INDIA
काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६०१५, तेलंगाना, भारत
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DEPARTMENT OF CIVIL ENGINEERING

Student Major Projects Linked to SDGs:

The following table shows the details of major projects works of Civil Engineering Department to address UN-17 SDG Goals.

Academic Year: CAY, CAY-1, CAY-2

CAY +1 Academic Year 2025–26 (Section 8CE)				
Batch No.	**Roll No.**	**Major Project Title**	**SDGs Addressed**	**Name of the Supervisor**
1	B23CE082L, B22CE026, B23CE075L, B22CE030, B22CE146L	Development of Sustainable High strength Concrete using Grey Relational Analysis	SDG 9, SDG 11, SDG 12, SDG 13	Sri.K.Srujan Varma
2	B23CE062L, B22CE020, B22CE063L, B22CE007, B21CE066	Optimised Building Construction Management using BIM	SDG 9, SDG 11, SDG 12	Dr.L.Sudheer Reddy
3	B23CE083L, B23CE061L, B22CE032, B23CE88L	Study on Mechanical & Durability Properties of Concrete using Graphene Oxide	SDG 9, SDG 11, SDG 12	Dr.S.Sunil Pratap Reddy
4	B23CE064L, B23CE066L, B23CE069L, B22CE024, B23CE072L	Experiment Study in Partial Replacement on Fine Aggregate with Glass Powder	SDG 9, SDG 11, SDG 12	Dr.M.Srikanth
5	B23CE074L, B22CE008, B22CE011, B23CE068L	Assessment of Climate Change impact on Rainfall and Temperature	SDG 6, SDG 13, SDG 15	Sri.Ch.Sridhar
6	B23CE076L, B22CE009, B22CE037, B22CE016, B22CE003	Analysis & Design of PSC Box Girder Bridge as per IRC using MIDAS	SDG 9, SDG 11	Dr.M.Veera Reddy
7	B23CE084L, B23CE080L, B22CE012, B23CE065L	Properties of Basalt Fiber Reinforced Concrete	SDG 9, SDG 11, SDG 12	Dr.D.Hari Krishna

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8	B22CE017, B22CE005, B22CE015, B23CE073L, B21CE019	Carbon dioxide Sequestration from Sea Water and Replacement with Cement in Concrete	SDG 9, SDG 12, SDG 13, SDG 14	Dr.A.Suchith Reddy
9	B22CE023, B22CE029, B22CE001, B22CE002, B22CE031	From waste to worth: Advanced testing of plastic waste blended bricks	SDG 9, SDG 11, SDG 12	Dr.N.Srikanth
10	B23CE078L, B23CE071L, B23CE089L, B22CE034, B22CE033	Experimental study on GGBS & Cement based Geopolymer Concrete	SDG 9, SDG 11, SDG 12, SDG 13	Smt.K.S.Bhargavi
11	B23CE087L, B23CE080L, B23CE070L, B23CE085L, B22CE025	Correlation between Earthquake Magnitude and Soil Moduli	SDG 9, SDG 11	Sri.B.Sai Laxman
12	B22CE018, B22CE013, B22CE028, B22CE004, B22CE036	Study on the effect of design speed and sight distance on highway safety and accident analysis	SDG 9, SDG 11	Dr.G.Shravan Kumar
13	B23CE086L, B23CE067L, B23CE079L, B22CE019, B21CE023	Alccofine & Scoria based Recycled Aggregate Concrete	SDG 9, SDG 11, SDG 12	Sri.A.Bhaskar

CAY Academic Year 2024–25 (Section 8CE1)				
Batch No.	Roll No.	Major Project Title	SDGs Addressed	Name of the Supervisor
1	B21CE007, B21CE016, B21CE032, B21CE043	Seismic analysis of High-Rise building using ETABS software	SDG 9, SDG 11	Dr.N.Srikanth

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2	B22CE129L, B22CE121L, B22CE128L, B22CE126L	Investigations of parking characteristics and assessment of parking system within limits of greater warangal municipal corporation	SDG 11	Dr.G.Shravan Kumar
3	B21CE011, B21CE009, B21CE018, B21CE012	An Experimental study on use of retarding agents in geo polymer concrete	SDG 9, SDG 12	Dr. M. Andal
4	B21CE001, B21CE041, B21CE010, B21CE006, B21CE048	Durability Study of GGBS & Flyash based geopolymer Concrete	SDG 9, SDG 12	Smt.K.Santhosh Bhargavi
5	B22CE013, B22CE123L, B21CE024, B21CE042	Modelling of irrigation water quality using multi layer perception back Propagation neural Network (MLBP-NN)	SDG 6, SDG 9	Sri Ch.Sridhar
6	B22CE131L, B22CE122L, B21CE040, B22CE124L	Effect of coconut shell ash filler material in Asphalt pavements	SDG 9, SDG 12	Smt. B Sravanthi
7	B21CE015, B21CE022, B21CE037, B21CE029	Influence of graphene oxide as partial substitute of cement on properties cement concrete	SDG 9, SDG 12	Dr. L. Sudheer Reddy
8	B21CE039, B21CE017, B21CE031, B22CE134L, B21CE002	Effects of fibers in geo-polymer concrete pavements using Fly ash & Granite waste	SDG 9, SDG 12	Smt.B.Sravanthi
9	B22CE130L, B22CE125L, B21CE008, B21CE005, B22CE133L	Study on mechanics and durability properties of lime based geo-polymer concrete	SDG 9, SDG 12	Smt.K.Santhosh Bhargavi
10	B21CE030, B21CE020, B21CE028, B21CE014	Earthquake intensity forecasting: A comprehensive analysis of literature based approaches	SDG 9, SDG 11	Sri B.Sai laxman

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11	B21CE026, B21CE003, B21CE025, B21CE045	Development of prefabricated wall panels	SDG 9, SDG 12	Sri. K. Srujan varma
12	B21CE027, B21CE038, B21CE044, B21CE034	Development of paver blocks using plastic waste	SDG 9, SDG 11, SDG 12	Dr.A.Suchith Reddy

CAY Academic Year 2024–25 (Section 8CE2)				
Batch No.	Roll No.	Major Project Title	SDGs Addressed	Name of the Supervisor
1	B21CE063, B22CE141L, B21CE060, B22CE137L	Development of sustainable paver block using fibrous concrete demolition waste and alternate aggregate	SDG 9, SDG 11, SDG 12	Sri.K.Srujan Varma
2	B22CE140L, B21CE048, B22CE135L, B21CE064	Development of EPS Composite wall panel	SDG 9, SDG 11, SDG 12	Dr.A.Suchith Reddy
3	B21CE062, B21CE071, B21CE059, B21CE072	Study on behaviour of Papercrete Concrete	SDG 9, SDG 12	Dr.D.Hari Krishna
4	B21CE058, B21CE085, B21CE069, B21CE078	Replacement of recycled rubber tyre crumbs with fine aggregate in conventional concrete	SDG 9, SDG 12	Smt.M.Sowjanya Lakshmi
5	B22CE139L, B21CE056, B22CE136L	Mitigation of congestion and packing problems in warangal city: Onroad study	SDG 11	Dr.G.Shravan Kumar
6	B22CE144L, B21CE080, B21CE052	Cracks reduction Analysis of self healing concrete with and with out GGBS	SDG 9, SDG 12	Smt.M.Sowjanya Lakshmi
7	B21CE073, B21CE074, B21CE053, B21CE075	Integrating Literature to improve Earthquake Magnitude Forecasting	SDG 9, SDG 11	Mr. B. Sai laxman

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8	B22CE145L, B22CE147L, B22CE143L, B21CE088	Experiment investigation on Additive based recycled aggregate concrete	SDG 9, SDG 12	Sri.A.Bhaskar
9	B22CE142L, B21CE070, B21CE083, B22CE149L	Development of self-healing grout for crack filling in concrete and its evaluation using non-destructive testing	SDG 9, SDG 12	Dr.L.Sudheer Reddy
10	B21CE049, B21CE089, B21CE082, B21CE090	Effect of class c fly ash in permeable geopolymer concrete pavements	SDG 9, SDG 12	Smt.B.Sravanthi
11	B22CE138L, B21CE068, B21CE086, B22CE148L	Experimental study on Zero cement concrete	SDG 9, SDG 12	Smt.K.Santosh Bhargavi
12	B21CE055, B21CE084, B21CE050, B21CE054	Experimental study on Photocatalytic concrete	SDG 9, SDG 12, SDG 13	Sri.A.Bhaskar
13	B21CE079, B21CE051, B21CE065, B21CE077	To study the effects of Bio-Medical ash as replacement to cement	SDG 9, SDG 12	Smt.S.Bhavani

CAY-1 Academic Year 2023–24 (Section 8CE1)				
Batch No.	Roll No.	Major Project Title	SDGs Addressed	Name of the Supervisor
1	B21CE130L, B20CE058, B20CE055, B20CE057	Study on mechanical properties of geopolymer concrete with partial replacement of fine aggregates with crushed ceramic tiles	SDG 9, SDG 12	Dr. D.Harikrishna
2	B21CE121L, B20CE041, B20CE043, B20CE060	Structural behavior of fibre reinforced self healing magnetic water concrete	SDG 9, SDG 12	Sri. K.Srujan Varma
3	B21CE134L, B21CE133L, B21CE136L, B21CE131L	Experimental investigation on prediction of bond strength using machine learning of additive based recycled aggregate concrete	SDG 9, SDG 12	Sri.A.Bhaskar

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4	B20CE002, B20CE030, B20CE001, B20CE005	Mechanical and micro-structural analysis of Concrete with Partial Replacement of Fine Aggregate with Marble Waste and Coarse Aggregate with E-Waste	SDG 9, SDG 12	Dr. M.Veera Reddy
5	B20CE004, B21CE125L, B20CE017, B20CE007	Study on Mechanical properties of lime based geopolymer concrete	SDG 9, SDG 12	Dr. M.Andal
6	B21CE126L, B20CE036, B20CE014	Bond slip behaviour of fiber reinforced alkali activated Concrete	SDG 9, SDG 12	Ms. K.Manasa
7	B21CE128L, B21CE123L, B21CE122L, B21CE012	Stabilization of laterite soil for pavement base application	SDG 9, SDG 11	Dr. G. Shravan Kumar
8	B20CE003, B20CE034, B20CE042, B20CE010	Expansive soil stabilization using Biochar	SDG 9, SDG 11	Dr.N. Gangadhara Reddy
9	B20CE016, B21CE135L, B21CE127L, B20CE006	Shear and bond behaviour of recycled hybrid fiber reinforced magnetic water concrete with non bio degradable	SDG 9, SDG 12	Sri. K.Srujan Varma
10	B20CE038, B20CE024, B20CE035, B20CE037	Study on mechanical properties of pervious concrete	SDG 9, SDG 12	Dr.N.Srikanth
11	B20CE046, B20CE011, B20CE040, B20CE047	RAP based geopolymer concrete for sustainable pavement construction	SDG 9, SDG 11, SDG 12	Smt.B.Sravanthi
12	B20CE026, B20CE027, B20CE020, B20CE019	Durability studies of concrete by incorporating natural zeolite, silica fume and flyash	SDG 9, SDG 12	Dr. M.Srikanth
13	B20CE033, B20CE015, B20CE022	Optimizing thermal comfort & energy efficiency in block 4 kitsw through insulation material selection and solar radiation analysis - A case study	SDG 7, SDG 11, SDG 13	Dr.A.Suchit Reddy

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14	B21CE132L, B20CE008, B21CE124L, B20CE053	Behaviour of self compacting concrete with fiber reinforcement	SDG 9, SDG 12	Smt.M.Sowjanya lakshmi
15	B20CE009, B20CE059, B20CE023	Self healing fiber reinforced concrete with partial replacement of cement with metakaolin	SDG 9, SDG 12	Dr. L.Sudheer Reddy
16	B20CE028, B20CE032, B20CE054, B20CE129L	Estimation and forecasting of reference evapotranspiration using multilayer perceptron with varying climatic factors	SDG 6, SDG 13	Sri. Ch.Sridhar

CAY-1 Academic Year 2023–24 (Section 8CE2)				
Batch No.	Roll No.	Major Project Title	SDGs Addressed	Name of the Supervisor
1	B21CE144L, B20CE118, B20CE066, B21CE139L	Self-healing fiber reinforced concrete with partial replacement of cement with metakaolin	SDG 9, SDG 12	Dr.L.Sudheer Reddy
2	B21CE143L, B20CE095, B20CE070, B20CE109, B20CE076	Drought assessment of various climatic stations in Telangana	SDG 6, SDG 13	Sri Ch.Sridhar
3	B20CE063, B20CE100, B20CE104, B20CE098	Strength and durability properties of concrete by partial replacement of sand with M sand	SDG 9, SDG 12	Dr.N.Srikanth
4	B20CE090, B21CE147L, B20CE105, B20CE065	Analysis of Ground water using remote sensing & GIS	SDG 6, SDG 13	Smt Sri Laxmi Pavani
5	B21CE146L, B20CE102, B21CE149L, B20CE081	Experimental study on mechanical properties of no cement concrete using water glass	SDG 9, SDG 12	Dr.M.Andal
6	B21CE137L, B21CE142L, B20CE099, B21CE150L, B20CE111	Stabilization of laterite soils for pavement applications	SDG 9, SDG 11	Dr.G.Shravan Kumar

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7	B20CE092, B20CE094, B20CE112, B20CE083, B20CE114	Experimental study on mechanical and durability properties of zero cement concrete	SDG 9, SDG 12	Smt.K.Santhosh Bhargavi
8	B21CE145L, B20CE097, B20CE113, B21CE151L	Bond slip behaviour of alkali activated concrete	SDG 9, SDG 12	Ms.K.Manasa
9	B21CE148L, B21CE152L, B20CE074, B20CE075	Petrographic analysis of recycled hybrid fiber reinforced eco-friendly concrete with modified structured water	SDG 9, SDG 12	Sri.K.Srujan Varma
10	B20CE096, B20CE069, B20CE064, B20CE103	IOT integrated real time monitoring of temperature within the concrete	SDG 9	Dr.A.Suchith Reddy
11	B21CE140L, B21CE141L, B20CE084, B21CE153L	Experimental study on use of marble waste and e waste in rigid pavements	SDG 9, SDG 12	Sri.P Teja Abhilash
12	B20CE119, B20CE088, B20CE079, B20CE061	Self-healing fibre reinforced concrete with partial replacement of cement with metakaoline	SDG 9, SDG 12	Dr.S Sunil Pratap Reddy
13	B20CE085, B20CE101, B20CE093, B20CE082, B20CE087	A study on concrete using natural Zeolite	SDG 9, SDG 12	Dr. B Sumanth Kumar
14	B20CE138L, B20CE077, B20CE089, B20CE068, B20CE062	Evaluation of different properties of pavement base layer materials at different aggregate gradation with and without water glass	SDG 9, SDG 11	Smt.B.Sravanthi

CAY-2 Academic Year 2022–23 (Section 8CE1)				
Batch No.	Roll No.	Major Project Title	SDGs Addressed	Name of the Supervisor

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1	B20CE121L, B19CE009, B20CE126L, B19CE034	Ensemble streamflow generation using multiple hydrological model structures using FUSE	SDG 6, SDG 13	Sri. M. SHIVA SHANKAR
2	B20CE127L, B20CE123L, B19CE015, B19CE017	Durability of additive based recycled aggregate concrete	SDG 9, SDG 12	Sri.A.Bhaskar
3	B19CE005, B19CE049, B19CE035, B19CE058	Predicting the Compressive Strength of Geopolymer Concrete Using Non-Destructive Testing	SDG 9, SDG 12	Sri B. Sumanth Kumar
4	B20CE124L, B19CE022, B19CE039, B19CE036	Flexural shear behaviour of fibre reinforced geopolymer concrete	SDG 9, SDG 12	Dr. M. Andal
5	B19CE006, B19CE056, B19CE021, B19CE051	Strength and durability aspects of self-healing concrete using bacteria	SDG 9, SDG 12	Dr. L. Sudheer Reddy
6	B19CE003, B19CE010, B19CE059, B19CE024	Laboratory investigation on mechanical properties of geopolymer stabilized pavement base material	SDG 9, SDG 12	Smt. B. Sravanthi
7	B19CE023, B19CE057, B19CE004, B19CE018	Optimization of Electric Vehicle Charging Station Location Based on Multi Criteria Decision Making	SDG 7, SDG 11	Dr. M. B. Sushma
8	B19CE001, B19CE027, B19CE053, B19CE020	Life cycle assessment of E-Waste Concrete	SDG 9, SDG 12	Dr.A.Suchith Reddy
9	B20CE122L, B19CE007, B19CE033, B19CE54	The impact of alkaline solution to GGBFS ratio with different molarities of sodium hydroxide on alkali activated concrete	SDG 9, SDG 12	Ms. K. Manasa
10	B19CE016, B19CE008, B19CE019, B19CE046	Durability properties of multi-recycled aggregate concrete	SDG 9, SDG 12	Sri N. Srikanth

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DEPARTMENT OF CIVIL ENGINEERING

11	B20CE125L, B19CE055, B19CE011, B19CE026	Mechanical and durability properties of bacterial concrete	SDG 9, SDG 12	Dr. S. Sunil Pratap Reddy
12	B19CE014, B19CE045, B19CE013, B19CE048	Surface and Groundwater analysis using RSGIS techniques	SDG 6, SDG 13	Smt. Sree Laxmi Pavani
13	B19CE028, B19CE025, B19CE42, B19CE029	Strength and durability properties of bacteria induced in zeolite concrete	SDG 9, SDG 12	Dr. M. SRIKANTH
14	B19CE030, B19CE038, B19CE037, B19CE040, B19CE050	Estimation and forecasting of reference evapotranspiration using soft computing models with varying climatic factors	SDG 6, SDG 13	Sri. CH .SRIDHAR
15	B19CE047, B19CE052, B19CE032, B19CE031	Durability studies of Fly-ash GGBS based Geopolymer Concrete	SDG 9, SDG 12	Sri. S. Raja shekar

CAY-2 Academic Year 2022–23 (Section 8CE2)				
Batch No.	Roll No.	Major Project Title	SDGs Addressed	Name of the Supervisor
1	B19CE071, B19CE061, B19CE066, B19CE079	Applications of MCDM techniques in civil engineering	SDG 9, SDG 11	Dr. M. Andal
2	B19CE095, B19CE112, B19CE096, B20CE138L	A Study on Effect of Sodium Bentonite on Mechanical and Durability Properties of Roller Compacted Concrete	SDG 9, SDG 12	Dr. S. Sunil Pratap Reddy
3	B20CE132L, B19CE089, B20CE137L, B19CE094	Leaching mechanism of metal ions through fly ash-bentonite composite: Experimental and analytical method	SDG 6, SDG 12	Sri. K. SRUJAN VARMA
4	B19CE080, B19CE119, B19CE120, B19CE069	Performance of Different Grades of Hybrid Fibre Reinforced Recycled Aggregate Concrete	SDG 9, SDG 12	Dr. A. SUCHITH REDDY

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5	B19CE082, B19CE072, B19CE086, B19CE075	Experimental analysis of modified bitumen mixes with lime	SDG 9, SDG 12	Dr. B. Sumanth Kumar
6	B19CE074, B19CE083, B19CE065, B19CE114	Seismic analysis and design of RCC structure using STAAD PRO	SDG 9, SDG 11	Sri N. Srikanth
7	B19CE105, B19CE087, B19CE102, B20CE129L	Application of Remote Sensing and GIS techniques for monitoring water quality parameters	SDG 6, SDG 13	Dr. M.B. Sushma
8	B19CE113, B19CE118, B19CE116, B19CE111	Estimation and forecasting of reference evapotranspiration using soft computing models with varying climatic factors	SDG 6, SDG 13	Smt.Ch.Sree Laxmi Pavani
9	B19CE062, B19CE110, B19CE084, B19CE078	Analysis and Design of (G+5) Residential building using ETABS	SDG 9, SDG 11	Dr. L. Sudheer Reddy
10	B20CE130L, B19CE064, B20CE131L, B20CE128L	Numerical Modelling of Stone Columns in unsaturated soils	SDG 9, SDG 11	Dr. D. Harikrishna
11	B19CE063, B19CE108, B19CE085, B19CE090	Ductility aspects of Plastic concrete with comparison to conventional concrete	SDG 9, SDG 12	Sri S.Ashok
12	B19CE067, B19CE109, B20CE133L, B19CE092	Influence of intersection geometry on the delay and capacity at uncontrolled intersection	SDG 9, SDG 11	Dr.N.Gangadhara Reddy
13	B19CE076, B19CE081, B19CE070, B19CE100	Numerical studies on coir fibre reinforced soil	SDG 9, SDG 12	Sri Ch. Sridhar
14	B20CE134L, B19CE103, B20CE136L, B20CE139L	Selection of an optimum residential plot using MCDM techniques	SDG 9, SDG 11	Sri S. Raja Shekhar

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15	B19CE104, B19CE081, B19CE070	Properties of flyash and GGBS based geopolymer concrete design by Taguchi method	SDG 9, SDG 12	Smt. B. Sravanthi