



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, TELANGANA, INDIA

काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६०१५, तेलंगाना, भारत

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E-mail: principal@kitsw.ac.in

☎ : +91 9392055211, +91 7382564888

DEPARTMENT OF CIVIL ENGINEERING

Student Mini Projects Linked to SDGs

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

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

CAY Academic Year 2024-25 (Mini Projects)

Batch No.	Roll No.	Mini Project Title	SDGs Addressed	Name of the Supervisor
1	B23CE062L, B22CE020, B22CE007	Optimized Building Construction Management Using BIM	SDG 9, SDG 11, SDG 12	Prof. L. Sudheer Reddy
2	B23CE064L, B23CE069L, B23CE072L	Comparative Life Cycle Assessment of Conventional Concrete and Flyash GGBS Based Geopolymer Concrete as Pavement Base Layers	SDG 9, SDG 12, SDG 13	Smt. B. Sravanthi
3	B23CE074L, B23CE081L, B23CE065L, B23CE068L	Seepage Analysis of Earthen Dam Using MATLAB	SDG 6, SDG 9	Sri. B. Sai Laxman
4	B23CE083L, B22CE032, B22CE031	Studies on Mechanical Properties of Concrete Using Graphene Oxide and Cement Composites	SDG 9, SDG 12	Dr. S. Sunil Pratap Reddy
5	B22CE017, B22CE005, B23CE073L	Performance of Concrete Blanket for Repairs	SDG 9, SDG 11	Dr. M. Veera Reddy



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6	B22CE023, B22CE001, B22CE146L, B22CE021	Life Cycle Assessment of Concrete Using PVC Waste Powder Using OpenLCA Software	SDG 9, SDG 12, SDG 13	Dr. N. Srikanth
7	B23CE084L, B23CE080L, B23CE089L	Bio Admixtures in Concrete	SDG 9, SDG 12	Dr. D. Harikrishna
8	B23CE076L, B22CE037, B22CE016, B22CE003	Mechanical and Durability Properties of Graphene Oxide-Based Concrete Composites	SDG 9, SDG 12	Dr. M. Srikanth
9	B23CE078L, B23CE071L, B22CE034, B22CE033	Mechanical Properties of Lime and GGBS Based Mortars Using Alkali Activators	SDG 9, SDG 12	Smt. K. Santhosh Bhargavi
10	B23CE087L, B23CE085L, B23CE070L	Soil Structure Interaction and Rectifying the Differential Settlement Under the Columns	SDG 9, SDG 11	Dr. M. Andal
11	B22CE018, B22CE028, B22CE004, B22CE027	Performance Production of Flexible Pavements with Different Layers Under Similar Traffic Conditions Using Ken Layers Software	SDG 9, SDG 11	Dr. G. Shravan Kumar
12	B23CE086L, B22CE013, B23CE079L	Life Cycle Assessment of Alccofine-Based Recycled Aggregate Concrete	SDG 9, SDG 12, SDG 13	Sri. A. Bhaskar
13	B22CE026, B22CE011, B22CE030, B22CE012	River Training Works by Using GIS	SDG 6, SDG 15	Sri. Ch. Sridhar



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14	B22CE008, B22CE009, B22CE002, B22CE036	Ground Water Quality Analysis Using Remote Sensing and GIS	SDG 6, SDG 13	Smt. N. Sree Laxmi Pavani
15	B22CE061L, B23CE066L, B22CE024	Bioash As a Supplementary Cementitious Material: A Comparison with Conventional Concrete	SDG 9, SDG 12	Smt. S. Bhavani
16	B23CE067L, B23CE063L, B23CE088L	Prediction of Compressive Strength of Concrete Using Python Software	SDG 9	Smt. M. Sowjanya Lakshmi
17	B22CE029, B22CE019, B22CE015	Smart Health Monitoring System for Structures	SDG 9, SDG 11	Dr. A. Suchit Reddy

CAY-1 Academic Year 2023-24 (Section 6CE1) - Mini Projects

Batch No.	Roll No.	Mini Project Title	SDGs Addressed	Name of the Supervisor
1	B21CE007, B21CE016, B21CE032, B21CE043	Design of RCC Buildings using Etabs software	SDG 9, SDG 11	Dr.N. Srikanth
2	B22CE129L, B22CE121L, B22CE128L, B22CE126L	Concrete characterization for low volume roads	SDG 9, SDG 11	Dr.G. Shravan Kumar
3	B21CE011, B21CE009, B21CE018, B21CE019	Development of hollow light weight blocks	SDG 9, SDG 12	Dr. M. Andal
4	B21CE001, B21CE041, B21CE010, B21CE006	Mechanical properties of LiTraCon	SDG 9, SDG 12	Miss. K. Manasa



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5	B22CE133L, B21CE012, B21CE035, B21CE045, B21CE002	Building Settlement Monitoring Using IoT Approach	SDG 9, SDG 11	Dr. S. Sunil Prathap Reddy
6	B22CE123L, B21CE013, B21CE024, B21CE042	Drought assessment using multi-layer perceptron (MLP)	SDG 6, SDG 13	Sri. Ch. Sridhar
7	B22CE131L, B22CE122L, B21CE040, B22CE124L	Effect of Land Use on Traffic Regulation	SDG 11	Smt. B. Sravanthi
8	B21CE015, B21CE022, B21CE037, B21CE029	Study of Durability of Concrete using IoT	SDG 9, SDG 12	Dr. L. Sudheer Reddy
9	B21CE039, B22CE134L, B21CE017, B21CE031	Prediction of shear strength of cohesive soils using machine learning	SDG 9, SDG 11	Dr.G. Gangahar Reddy
10	B22CE130L, B21CE008, B22CE125L, B21CE005	Lime & Metakaolin Based Concrete	SDG 9, SDG 12	Smt. K.S. Bhargavi
11	B21CE030, B21CE014, B21CE020, B21CE028	Slope Stability Analysis of Earthen Dam using Geo-studio Software	SDG 9, SDG 11	Sri. B. Sai Laxman
12	B21CE026, B21CE025, B21CE003, B21CE023	Mechanical properties of recycled aggregate concrete & recycled polypropylene fiber reinforced sustainable concrete	SDG 9, SDG 12	Sri K.Srujan Varma



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13	B21CE027, B21CE038, B21CE044, B21CE034	Development of plastic in pavements - a sustainable approach	SDG 9, SDG 12, SDG 13	Dr. A. Suchith Reddy
CAY-1 Academic Year 2023-24 (Section 6CE2) - Mini Projects				
Batch No.	Roll No.	Mini Project Title	SDGs Addressed	Name of the Supervisor
1	B21CE063, B22CE141L, B21CE060, B22CE137L	Development Of Sustainable Paver Blocks Using Fibrous Concrete, Demolition Waste and Alternate Aggregate	SDG 9, SDG 12	K. Srujan Varma
2	B22CE140L, B21CE048, B22CE135L, B21CE064	Application of Piezoelectric Sensors in Civil Engineering	SDG 9	Dr. A. Suchith Reddy
3	B21CE062, B21CE071, B21CE059, B21CE072	Lightweight Innovations: Exploring Foamed Concrete	SDG 9, SDG 12	Dr. D. Hari Krishna
4	B21CE058, B21CE085, B21CE069, B21CE078	Developing Spreadsheets for Calculation of SBC	SDG 9	Dr. M. Andal
5	B22CE139L, B21CE056, B21CE066, B22CE136L	Characterization of Stabilized Subgrade Soil for Pavement Application	SDG 9, SDG 11	Dr. G. Shravan Kumar
6	B22CE144L, B21CE080, B20CE086, B21CE052	Life Cycle Assessment of Water Glass Activated Fly Ash And GGBS Concrete	SDG 9, SDG 12, SDG 13	Smt. M. Sowjanya Lakshmi



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7	B21CE073, B21CE074, B21CE053, B21CE075	Slope Stability Analysis of Earthen Dams Using Geostudio Software	SDG 9, SDG 11	Sri. B. Sai Laxman
8	B22CE145L, B22CE147L, B22CE143L, B21CE088	Predicting The Compressive Strength of Concrete Using Machine Learning	SDG 9	Sri. A. Bhaskar
9	B22CE142L, B21CE070, B21CE083, B22CE149L	Structural Health Monitoring of Mechanical Properties of Concrete Using IoT	SDG 9, SDG 11	Dr. L. Sudheer Reddy
10	B21CE049, B21CE089, B21CE082, B21CE047	Bitumen Mixtures Using Jute Fiber	SDG 9, SDG 12	Smt. B. Sravanthi
11	B22CE138L, B21CE068, B21CE086, B22CE148L	Study on Mechanical Properties of Lime & Metakaolin Based Binders	SDG 9, SDG 12	Smt. K. Santhosh Bhargavi
12	B21CE055, B21CE084, B21CE050, B21CE054	Prediction of Shear Strength Using Machine Learning For Non-Cohesive Soils	SDG 9, SDG 11	Dr. N. Gangadhara Reddy
13	B21CE079, B21CE051, B21CE065, B21CE077, B21CE090	Bio-Receptive Concrete	SDG 9, SDG 12	Smt. S. Bhavani

CAY-2 Academic Year 2022-23 (Section 6CE) - Mini Projects

Batch No.	Roll No.	Mini Project Title	SDGs Addressed	Name of the Supervisor
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2	B21CE121L, B20CE041, B20CE043, B20CE060	Economical Dwelling	SDG 9, SDG 11	K. Srujan Varma
3	B21CE134L, B21CE133L, B21CE136L, B21CE131L	Turbulent flow simulation of draft tube in Kaplan turbine	SDG 9	M. Shiv Shankar
4	B20CE002, B20CE030, B20CE001, B20CE005	Strength and durability characteristics of ternary blending concrete	SDG 9, SDG 12	Dr. M. Veera Reddy
5	B20CE004, B21CE125L, B20CE017, B20CE007	Geopolymer Concrete	SDG 9, SDG 12	Dr. M. Andal
6	B21CE126L, B20CE036, B20CE014, B20CE050	Study of long term behaviour of concrete	SDG 9, SDG 12	Ms. K. Manasa
7	B21CE128L, B21CE123L, B21CE122L, B20CE012	Investigation of particular matter estimation over a semi-rigid region, using Satellite AOD and meteorological parameters: Case study of Hyderabad	SDG 11, SDG 13	Sri. S. Ashok
8	B20CE003, B20CE034, B20CE042, B20CE010	Extensive soil stabilization using biochar	SDG 9, SDG 11	Dr. N. Gangadhara Reddy



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10	B20CE038, B20CE024, B20CE035, B20CE037	Non-Destructive testing of a structure using rebound hammer & UPV methods	SDG 9, SDG 11	Sri. N. Srikanth
11	B20CE046, B20CE011, B20CE040, B20CE047	Theoretical studies on geocell reinforced unsaturated soils	SDG 9, SDG 11	Md. Shakeel Abid
12	B20CE026, B20CE027, B20CE020, B20CE019	Evaluating the performance of signalized intersection under heterogeneous traffic conditions	SDG 9, SDG 11	Sri. J. Jithender
13	B20CE033, B20CE015, B20CE022, B20CE057	Transitioning adaptability with lean management in construction	SDG 9, SDG 12	Dr. A. Suchith Reddy
14	B21CE132L, B20CE008, B21CE124L, B20CE053	Analyzing the effects of sustained exposure to high temperatures on fiber reinforced concrete	SDG 9, SDG 12	Sri. S. Raja Shekhar
15	B20CE009, B20CE059, B20CE023, B20CE052	Self-healing fiber reinforced concrete with M40 grade partial replacement of cement with metakaolin	SDG 9, SDG 12	Dr. L. Sudheer Reddy
16	B20CE028, B20CE032, B20CE054, B21CE129L	Estimation of Rainfall - Runoff	SDG 6, SDG 13	Sri. Ch. Sridhar