

Day 1- 12th December 2024

Session 1 (offline)		Session 2 (offline)	
NHCE ID	Title	NHCE ID	Title
NHCE 62	Critical appraisal and laboratory studies on dense bituminous macadam mixes	NHCE 19	Burj khalifa – an iconic sustainable megatall tower
NHCE 75	Enhancing Cold Mix Asphalt with Bagasse Ash-Activated Fillers and GGBS: A Study on Mechanical Properties	NHCE 22	Suitability of produced alkalinated angular artificial aggregates using blended industrial wastes
NHCE 86	Study on cold mixed semi dense bituminous concrete with ggbs and copper slag as fillers	NHCE 53	Multiobjective Optimization of One-part Slag-Flyash-Microsilica based Alkali-Activated Ternary Binder Mixes
NHCE 94	Fatigue and moisture susceptibility characteristics of BC grade 1 mix blended with PMB40 and VG30	NHCE 96	Thermo-mechanical investigation of fly ash and slag-based alkali-activated mortars
NHCE 101	Influence of footpath friction on walking pattern and speed	NHCE 113	Experimental Investigation of Recycled Concrete Aggregate Solid Masonry Blocks using Fly Ash and GGBS
NHCE 105	Performance studies of RAP mixtures by balanced mix design approach	NHCE 115	Experimental investigation on slabs containing ggbs
NHCE 116	Automation of Pavement Distress Rating data collected from ROMDAS in Flexible Pavements	NHCE 135	Damp Proofing of Concrete with discarded rubber tyre crumb
NHCE 118	Analysis and study of the pavement grade concrete constructed by using construction & demolition waste	NHCE 137	Evaluating thermal performance and economic feasibility of sandwich panels for modular construction-worker housing in warm-humid climates
NHCE 175	Experimental investigation of m25 grade pervious concrete as a sustainable building material	NHCE 142	Comparative study on performance of one-part and two-part geopolymer concrete
NHCE 178	An Experimental Investigation on Recycled Plastic Footpath	NHCE 143	Study on replacement of coconut shells & ceramic tile waste for aggregates & fly ash for cement in concrete
NHCE 189	Suitability of Alkali-Activated Black Cotton Soil and Low-Calcium Fly Ash Blends for Road Applications		

Session 3 (online)	
HCE ID	Title
NHCE 15	Enhancing Sustainability and Efficiency of Translucent Concrete through Industrial Waste Utilization and Optimal Fibre Configuration.
NHCE 18	Sustainable Concrete with GGBS as partial replacement for Cement and PVC Granules for Fine Aggregates
NHCE 24	Enhancing 3D Printability of Fly Ash Slag-Based Alkali Activated Materials: A Study on Viscosity Structural Integrity
NHCE 37	Elemental and crystallographic analysis of concrete strength and durability with varying ratios of common effluent treatment plant (CETP) sludge as substitute for fine aggregate
NHCE 40	Utilization of Paper cup waste in Paver Blocks
NHCE 41	Utilization of Biomass Briquettes for Environmentally Sustainable Cremation Practices (Part- I)
NHCE 42	Field Assessment and Optimization of Biomass Briquettes in Cremation Practices (Part II)
NHCE 55	Optimization of glass powder and nano titanium dioxide on mortar setting time and strength using RSM
NHCE 56	An experimental study on partially replacing fine aggregate with stone dust and cement with glass powder for M-30 & M-40 grade of concrete
NHCE 110	Influence of brick waste grade on physical and mechanical behaviour of mortars

Session 4 (online)	
NHCE ID	Title
NHCE 111	Influence of fines content on strength of structural mortar with GGBS and recycled brick waste
NHCE 114	Feasibility Studies on RC Slabs Containing Nano-silica
NHCE 121	Veleratisation of High Iron content Fly Ash in Geopolymer binders using multilevel materials investigation
NHCE 125	Experimental Investigation of Utilization of Blast Furnace Slag in Concrete As a Replacement of Coarse Aggregate
NHCE 130	A Study on Properties of Concrete at Sustained Elevated Temperatures Using Portland Pozzolana Cement(PPC)
NHCE 151	Development of Alkali-Activated Concrete with Artificial Aggregates using Waste Materials
NHCE 186	Performance of Silica Fume as a Partial Replacement on Cement Concrete Strength
NHCE 198	Enhancing Cement Mortar Early Age Strength and Sustainability through Fly Ash Incorporation and Carbonation Curing
NHCE 199	Influence of BOF Steel Slag on the Physico-mechanical and Microstructural Properties of Composite Mortar Exposed to CO2 Acceleration
NHCE 200	Strength and Durability Characteristics of Lime Treated Coal Bottom Ash
NHCE 213	Application of Machine Learning in Predicting Compressive Strength of Concrete Incorporating Iron Slag as a Fine Aggregate Replacement

Day 2- 13th December 2024

Session 5 (offline)	
NHCE ID	Title
NHCE 07	Road Dust of Urban Landscape: A Case Study Insight
NHCE 67	Biogas Generation from Agricultural Waste: A Case Study of Sugarcane Bagasse as Feedstock
NHCE 92	Biogas Generation from Agricultural Waste: A Case Study of Wheat Straw as Feedstock
NHCE 95	A comprehensive review on life cycle assessment of deconstruction waste
NHCE 181	Assessing Arecanut Crop Health Using Hyperspectral Remote Sensing: Evaluating Disease Severity with Narrow-Band Indices and the Disease Index
NHCE 185	Study of Biofilm Growth to understand the Microbial Attachment on Porous Media
NHCE 201	Design of Rotary- type Incinerator system for the treatment of Industrial Hazardous waste: A Review
NHCE 202	Life Cycle Assessment of Food Container Systems: A Review
NHCE 204	Adsorptive Removal of Parabens : An Overview
NHCE 205	Machine LEARNING Model for Predicting Bacteriological Contamination in Water

Session 6 (offline)	
NHCE ID	Title
NHCE 147	Transforming Waste into Value: Broken Bricks and GGBS as Sustainable Concrete Components
NHCE 149	Bagasse ash particle size effect on flow and strength of alkali activated binder system
NHCE 152	Assessment of flow and strength characteristics of Limestone Calcined Clay Cement mortar with seashell powder replacement
NHCE 161	Performance evaluation of self levelling mortar incorporating bagasse ash subjected to different curing regimes
NHCE 166	An Experimental Study on Carbon Capturing Concrete
NHCE 170	A comprehensive review on utilization of dredged marine sediments for sustainable masonry
NHCE 173	Experimental study on preparation and strength analysis of vedic bricks by eco-friendly process
NHCE 174	Experimental study on strength and durability of sugarcane bagasse ash for sustainable civil structures
NHCE 176	Advancing sustainable and smart civil infrastructures through spun concrete pipe manufacturing
NHCE 177	Experimental investigations of mechanical properties of glass fiber reinforced concrete

Session 7 (online)	
NHCE ID	Title
NHCE 58	Design of Sustainable Speed Breaker using Non-Newtonian Fluid for Urban Traffic Conditions
NHCE 61	Critical appraisal and laboratory studies on bituminous concrete mixes
NHCE 64	Laboratory studies on open graded bituminous course using groundnut shell powder as filler material
NHCE 72	Long term performance and self-healing: A comparative study of hot mix asphalt versus warm mix asphalt
NHCE 77	Laboratory investigations on self healing properties of asphalt mixes using glass powder
NHCE 97	Embodied energy and carbon footprint for different operations during pavement maintenance
NHCE 98	Reduction in effective carriageway width and footpath capacity due to footpath friction
NHCE 119	Characterizing the Chemical Composition and Rutting Performance of RAP and RAP-Rejuvenated
NHCE 120	Prediction of Modified Structural Number for Asphalt Pavements Using Machine Learning Algorithms
NHCE 139	Investigating the Effects of Fiber Incorporation and Partial Replacement of Aggregates with Recycled Materials on Marshall Properties of Bituminous Concrete Mixtures

Session 8 (online)	
NHCE ID	Title
NHCE 10	Effect of Bond Deterioration on Shear Resistance of RC Interior Beam-Column Joints Under Reverse Cyclic Loading
NHCE 52	Investigation on Lateral torsional buckling for I-beam in Jib crane using FEM analysis
NHCE 104	Structural response of a bamboo-reinforced epoxy slab in impact
NHCE 106	The study of flexural behaviour of concrete slabs with bamboo reinforcement
NHCE 112	A study on the behaviour of bamboo reinforced concrete long columns
NHCE 171	Analysis of performance of Reinforced concrete structures with varying combinations of Concrete grades by Response Spectrum method
NHCE 43	Computational Modelling of Footing Resting on Stone Columns Subjected to Static Load by Using Finite Element Method under Soil-Structure Interaction Problem
NHCE 148	Stabilization of Cochin Marine Soil Using Sisal Fibres and Seashell Powder

Day 3- 14th December 2024

Session 9 (offline)	
NHCE ID	Title
NHCE 179	An experimental investigation on recycled aggregate
NHCE 196	Sustainability assessment of recycled concrete aggregate for building construction
NHCE 223	Review of Design Guidelines for GFRP Reinforced Concrete Members
NHCE 226	Studies on cool roof coatings using locally available materials
NHCE 228	Investigation of fresh and hardened properties of one-part fly ash-based geopolymer concrete cured at ambient temperature: impact of slag and alkali activators

Session 10 (offline)	
NHCE ID	Title
NHCE 206	A Study on Biokinetic Coefficients in Membrane Bioreactor (MBR) Systems for Domestic Wastewater Treatment
NHCE 207	A novel approach for drying arecanut using forced convection
NHCE 208	An Investigative Survey on the Water-Salinity Status of Brahmavar Taluk of the Coastal City Udupi, Karnataka
NHCE 209	Comprehensive Overview of Water Treatment Technologies
NHCE 211	Understanding the Effect of Soil Salinity on Soil Organic Matter and Biological Nitrogen Fixation Process
NHCE 215	Assessing Groundwater Quality: Recent Advances in Remote Sensing Techniques
NHCE 216	Comparative Life Cycle Assessment of Membrane Bioreactor and Conventional Activated Sludge Process in Wastewater Treatment
NHCE 219	Comparative Life Cycle Assessment of a Commercial Steel Door Using Arivu and simapro: A Focus on Environmental Impact and Accessibility

Session 11 (offline)	
NHCE ID	Title
NHCE 34	Comprehensive blast load analysis on a offshore jacket structure
NHCE 68	Study on effects of joint stiffness on the behavior of underground tunnel lining joints using finite element method.
NHCE 79	Exploring the Potential of Floating Architecture in India's Hospitality Industry: Challenges, Opportunities, and Technological Considerations
NHCE 128	Studies on the behaviour of medium span steel roof trusses with varying configurations
NHCE 172	Design and Analysis of G+5 Storied Building in Extended Three-dimensional Analysis of Building Systems
NHCE 229	Reviving Structures: A Comprehensive Review of Concrete Jacketing for Retrofitting
NHCE 35	Neuroevolution Of Augmenting Topologies for Prediction of California Bearing Ratio of Subgrade Soil
NHCE 157	Slope Stabilization of Land Slide Prone Areas by Bacteria
NHCE 214	Review on Real-Time Slope Monitoring Systems
NHCE 220	Effectiveness of Stone Columns in Supporting Frame Structures on Soft Consolidating soil

Session 12 (online)	
NHCE ID	Title
NHCE 168	Laboratory Evaluation of Waste Toner as a Modifier in Stone Matrix Asphalt Mixes
NHCE 169	Laboratory Investigation of Warm Mix Asphalt mixture using wet bond and Cashew Shell Nut Liquid
NHCE 06	Experimental evaluation of the performance of coffee husk in aerobic composting
NHCE 21	Performance Evaluation of Storm Water Management and Its Impact
NHCE 46	Adaptive Strategies for Drought Mitigation in the Malaprabha Sub-Basin: Analyzing Rainfall Trends Under a Changing Climate
NHCE 48	Analyzing Micro-siting of Wind Turbines and Case Study of A Wind Farm
NHCE 123	Spatial and Temporal Distribution of ppcps in River Systems: A Comparative Review of China and India
NHCE 124	Harnessing Spirulina platensis for Efficient Domestic Wastewater Treatment and Biomass Recovery