

National Conference on Soils and Foundations SAF 2024

Technical Sessions

16-02-2024, 2.00 to 4.00 pm

Technical Session-1: Venue: Main Seminar Hall

Session Chair: Dr. Anjali MS; Co- chair: Prof. Akhila P V	
Keynote Lecture 1	Dr. Anjali MS, Associate Professor, LBSCE, Kasaragod
Technical Presentations	
Paper id	Title
1	Use of Alkali-Activated Magnesium-Rich Olivine in Soil Stabilization, <i>Deepa K A; Sahana A S; Gangadhara S</i>
3	A Review on the Fundamentals of Biocementation Technique and Challenges in Upscaling to Field Applications, <i>Sona Rachel Thomas</i>
7	A Review on Bearing Capacity of Open and Closed-Ended Pipe Piles in Cohesionless Soil, <i>Manjima M</i>
13	Prestress Effects in Geogrid Reinforced Foundations: An Experimental Investigation, <i>Neema Therese; Aneesha Boas; Aneesha H; Abhirami S O; Abhikrishna V R; Jayamohan Jayaraj; Naveen S; Anushia G S</i>
30	Review on Beach Morphological Study on Coastal Regions in Trivandrum, <i>Vaishnavi Chandran; Rani V Visalakshi Amma</i>
43	Application and Innovation of Geophysics in Geotechnical Engineering, <i>Roshiya Fathima N</i>
66	Land disturbances due to soil piping in Western Ghats of Kerala – Review, <i>Shruthi Johnson</i>
42	Design of soil stabilization for the Construction of Retaining wall of Lock cum Bridge in West Coast Canal at Veliyancode, Malappuram, <i>Arunima M L</i>
10	Design of Combined Piled-Raft Foundation, <i>Arya Girish</i>

Technical Session-2 : Venue: LITAA Seminar Hall

Session Chair: Dr Beenamol; Co- chair: Prof. Aaja A	
Keynote Lecture 2	Dr. Beenamol, Assistant Professor, LBSCE, Kasaragod
Technical Presentations	
Paper id	Title
5	Response Analysis of Multi-Storied Building Due to Pulse Train Loading, <i>Anila Angel P R; Sundararajan T</i>
74	A Review on Slope Stability Analysis Using Plaxis 2D, <i>Anagha Parayil; Ameya Ocean S Panakkal; Anagha Vijayan M V; Mithuna V V; Nandana Krishna; Athul O K</i>
41	Group Effect of Ordinary and Tapered Stone Column, <i>Anakha Reji</i>
51	Effects of Encapsulated Geogrid Reinforced Foundations: An Experimental Investigation, <i>Neema Therese; Jayamohan Jayaraj; Naveen S; Anushia G S</i>
9	Experimental Studies of Caissons in Soft Clay under Lateral and Vertical Loading, <i>Aaja Aralickumar Sujana</i>
31	Bearing Capacity of Soil with Nano Silica and Carbon Fiber, <i>Rijo Varghese</i>
34	Spatial distribution and morphological studies with application of the geotextile in coastal areas of Trivandrum, <i>Vishnu A S</i>
16	Design of Stone Columns for Approach Road & Box Culvert near Lock cum Bridge of West Coast Canal at Malappuram, <i>Miria Jerald; Jayamohan Jayaraj</i>
76	Case Study: Design of a Soil Nail Stabilized Slope At Trivandrum, <i>Jigmet Skitdon</i>

Technical Session-3 : Venue: PTA Seminar Hall

Session Chair: Prof Sruthi M; Co- chair: Prof. Sruthi DA	
Keynote Lecture 3	Prof Sruthi M, Assistant Professor, LBSITW, Thiruvananthapuram
Technical Presentations	
Paper id	Title
4	Bioengineering Approach to Mitigate Erosion-Induced Shallow Landslide, Byrareddy H V; Abhishek R B; Chandana H P; Inchara L; Raghavendra H N
28	Performance Evaluation of Natural Fibers on Piping Resistance of Soil – A Review, <i>Helen Thomas; Revathy V S</i>
29	Combined Effect of Steel Fibers and Ground Granulated Blast Furnace Slag on Clayey Soil, <i>Gokul Nath G S</i>
36	A Review on Encapsulated Geosynthetics, <i>Arya S B</i>
24	A Review on the Behavior of Combined Piled Raft Foundations, <i>Manjusree P S</i>
8	A Review on Behaviour of Pervious Concrete Pile under Different Loading Conditions in Clay, <i>Sanjana S. R.</i>
25	Design and Analysis of Composite Embankment subjected To Sudden Drawdown, <i>Reshmi R S</i>
39	Experimental Evaluation of Deformation on Geobag with Modified Soil Mixture - A Review, <i>Lekshmi R; Sanjana S R; Athulya A</i>
40	A Review on Geothermal Energy Piles, <i>Sanjana K L</i>

Technical Session-4 : Venue: Room No: 512

Session Chair: Prof Kavya Prasannan; Co- chair: Prof. Greeshma V S	
Keynote Lecture 4	Prof Kavya Prasannan Assistant Professor, LBSITW, Thiruvananthapuram
Technical Presentations	
Paper id	Title
6	Foundation Improvement Using Inclined Corrugated Micropiles with Different Spacings, <i>Sarath CS</i>
11	Effect of Non-Woven Coir Geotextiles on Drainage Characteristics of Granular Sub-base, <i>Blesson John; Samu Wilson; Aiswarya Madhupal; Jaya V</i>
27	Review on Evaluation of Bearing Capacity of Sandy Soil Reinforced with Coir Geogrid Tubes, <i>Karthika Satheesh G; Magi N S</i>
35	CBR characteristics of the soil stabilized with woven coir geotextiles, <i>Amila A; Manju G S</i>
33	Unsaturated Soils and its Feasibility in Geotechnical Engineering Practice, <i>Greeshma Vs</i>
68	Non-Destructive Test for Flexible Pavement, <i>Navami Krishna A S</i>
18	A Review on Soil Moisture Retrieval using Remote Sensing, <i>Aneesa H</i>
20	A Review Paper on Bearing Capacity of Shallow Foundation on Geogrid Reinforced Soil, <i>Abhirami S O</i>
21	Review on Embankment on Soft Clays, <i>Keerthy P S</i>

17-02-2024, 2.00 pm to 4.00 pm

Technical Session-5 : Venue: Main Seminar Hall

Session Chair: Prof Deepthy B L; Co- chair: Prof. Sangeetha	
Keynote Lecture 5	Prof Deepthy BL Assistant Professor, LBSITW, Thiruvananthapuram
Technical Presentations	
Paper id	Title
17	A Review on Machine Learning in Geotechnical Engineering, <i>Anushia G S; Neema Therese; Jayamohan Jayaraj; Naveen S</i>
23	A Review on Detection of Underwater Cracks on Dam Surfaces using Remote Operated Vehicle, <i>Lekshmi Priya</i>
45	Fiber Reinforced Soil, <i>Amrita V K</i>
59	Soil Bio-Cementation Using MICP, <i>Anjali M</i>
22	Hybrid Modular Buildings: A Review, <i>Pooja Asok A</i>
50	Crushed Waste Glass in Asphalt Mixes, <i>Aswana Surendran</i>
56	Exploring the intersection of Building Energy Efficiency and Phase change Materials, <i>Sreelakshmi A S</i>
57	Review on Uboot Beton Void Slab Technology, <i>Sandra VR</i>

Technical Session-6 : Venue: LITAA Seminar Hall

Session Chair: Prof Aaja A; Co- chair: Prof. Akhila P	
Keynote Lecture 6	Prof Aaja A Assistant Professor, LBSITW, Thiruvananthapuram
Technical Presentations	
Paper id	Title
37	Assessment of Prestressing Geogrids and Proposal of a Novel Prestressing Methodology, <i>Neema Therese; Abhikrishna V R; Aneesa H; Aneesha Jaison Boas; Abhirami S O; Jayamohan Jayaraj; Naveen S; Anushia G S</i>
52	A Review on Helical Screw Pile, <i>Lakshmi Venugopal</i>
73	A Review on Soil Sampling Techniques, <i>Niranjana Arun R; Haripriya M V; Jinsha R S; Sreelekshmy J M</i>
12	A Study on Design and Fabrication of Sanitary Napkin Disposal Mechanism, <i>Dhanika G.L</i>
47	Treatment of Grey Water using Biochar Integrated Slow Sand Filters and its Effective Distribution in Irrigation, <i>Megha S Kumar</i>
54	A Review on Microsurfacing using Steel Slag, <i>Arathy V S</i>
55	Study on Self-Healing Concrete using Bacteria and Glass Fibre, <i>Gopika L Prathapan</i>
65	A Review on Air Pollutant Removal Using Filtration Cum Adsorption Process, <i>Samudra Mohan</i>
62	A Review on Palm Oil Fuel Ash Concrete, <i>Subuhana S</i>

Technical Session-7 : Venue: PTA Seminar Hall

Session Chair: Prof Arun N R; Co- chair: Prof.Sruthi DA	
Keynote Lecture 7	Prof Arun N R Assistant Professor, LBSCE, Kasaragod
Technical Presentations	
Paper id	Title
19	Review on the Effect of Sodium Polyacrylate on Concrete, <i>Deepthy B L; Anjali M; Aswani M; Linitta L S; Sheena S V</i>
48	Steel Slag in Concrete: An Eco-Friendly Material for Achieving Sustainability- A Review, <i>Akhila J S</i>
53	A Review on Concrete Cloth, <i>Neeraja M P</i>
61	Experimental Study on Basalt Fiber Reinforced Concrete, <i>Praveena R</i>
63	High Performance Light Transmitting Concrete, <i>Gopika P</i>
69	Structural Health Monitoring of Civil Engineering Structures using the Internet of Things, <i>Aswani M</i>
71	Cassava Peel Ash Concrete, <i>Avarna L.R</i>
72	Concrete filled double skin steel tubular column with UPVC, <i>Sneha Rajan</i>
64	Steel Fibre Reinforced Light Weight Concrete, <i>Ankuja P.S</i>

Technical Session-8 : Venue: Room No: 512

Session Chair: Prof Greeshma V S; Co- chair: Prof.Abdul Raheem	
Keynote Lecture 8	Prof Greeshma V S Assistant Professor, LBSITW, Thiruvananthapuram
Technical Presentations	
Paper id	Title
49	A Review on Centrifuge Model Study Of Piles Socketed In Soft Rock, <i>Adheena P V</i>
75	A Review on Micropiles, <i>Sugatha Manoj</i>
38	Transparent Soil: Understanding Particle Dynamics and Exploring Applications, <i>Neema Therese; Jayamohan Jayaraj; Naveen S; Anushia G S</i>
15	A Review on Various Disposal Methods of Sanitary Napkin Waste, <i>Greeshma S Babu</i>
44	Challenges, Opportunities and Progress in Solid Waste Management during Covid-19 Pandemic, <i>Ashly Binoy</i>
67	A Study on Air Pollutant Removal using Filtration cum Adsorption Process, <i>Reshma Raj M</i>
70	Review on Self-Healing of Concrete, <i>Sheena S V</i>
60	Agroconcrete, <i>Ann Susan Thomas</i>