

Project Titles (E14 Batch)

Project Number (C/14)	Tentative Project Title / Research Area	Reg.No.	Name	Supervisor
Geotechnical Engineering				
1	Application of GIS based statistical models to assess the rock slope failures along roads	E/14/114	M.T.M. Gunathilaka	Dr.AMRG Athapaththu
		E/14/100	T.C.D. Fernando	
2	Developmet of relationship to detremine strength properties of tropically weatherd rocks	E/14/261	H.M.M. Priyashan	Dr.AMRG Athapaththu (Cosupervised by Dr.L.C.Kurukulasuriya)
		E/14/258	M.L.C. Prasanga	
3	Examination of Geotechnical Properties of Marine Dredged Sand	E/14/281	P.G.G.M. Ranbandara	Dr.AMRG Athapaththu (Cosupervised by Dr.L.C.Kurukulasuriya)
		E/14/351	R.U. Thilakarathne	
4	Feasibility of using geopolymers to stabilize expansive soil	E/14/171	S. Kanjana	DR.MCM Nasvi
		E/14/301	S. Sajithhijan	
5	Development of a design guideline for deep soil mixing (DSM) to stabilize expansive soils	E/14/166	S. Jeyathanan	DR.MCM Nasvi
		E/14/164	D. Jeevathas	
6	Combined effect of temperature and salinity on the triaxial mechanical behaviour of geopolymers	E/14/138	R.L. Hewavitharana	DR.MCM Nasvi
		E/14/214	M.M.A.L.M. Maheepala	
7	Experimental and Numerical Investigation of Gas Migration in Partially-saturated Porous Media	E/14/111	A.G.G.C.K. Gunathilaka	Dr.DTKK Chamindu
		E/14/190	R.M.B. Lakmal	
8	Experimental Investigation of Colloid Transport in Saturated Porous Media	E/14/043	M.G.C. Bombuwala	Dr.DTKK Chamindu
		E/14/172	A.M.E. Karunarathna	
9	Characterization of Porous Substrates for Earth and Space-based applications	E/14/407	A.Y.A Yaseer Yaseen	Dr.DTKK Chamindu
		E/14/193	T. Lingajanan	
10	Influence of swelling of clay liner materials amended by Bentonite on Hydraulic characteristics	E/14/289	R.A.TM.N. Rathnayake	Dr.LC Kurukulasuriya
		E/14/024	A.H.N. Asuramanna	
11	Collapsibility characteristics of a residual soil in Matale District	E/14/088	A.K.T. Dushan	Dr.LC Kurukulasuriya
		E/14/071	C.J. De Zoysa	
12	Hydraulic characteristics of ballast subjected to particle degradation and mud pumping	E/14/296	K.D.K. Rupasinghe	Dr.LC Kurukulasuriya
		E/14/367	L.A.R.L. Weerathna	
13	Develop a relationship between 1-D consolidation parameters and index properties for Residual soils	E/14/069	P.G.T.N. De Silva	Dr.D.de S Udakara
		E/14/004	S. Abeygunawardana	
14	Comparison of strength properties of sand obtained from direct shear and triaxial tests	E/14/224	M.S.W.P. Mohottala	Dr.D.de S Udakara
		E/14/038	S.M.I.S Bandara	
15	Performance enhancement of rail track foundation using geosynthetics.	E/14/385	T.H.V.P. Wickramasinghe	Dr.SK Navaratnarajah
		E/14/362	D.S.A. Wanigasekara	
16	Numerical modelling of Effects of fine materials on shear behaviour of railway ballast material	E/14/066	M. Daxan	Dr.SK Navaratnarajah
		E/14/152	H.K.K.A. Jayasekara	
17	Effects of fouling materials on Permeability behaviour of large size granular materials	E/14/107	M.M.N. Gimhani	Dr.SK Navaratnarajah
		E/14/173	J.M.M.Y. Karunarathna	
Transportation and Traffic Engineering				
18	Estimation of traffic parameters and traffic flow modelling for Expressways in Sri Lanka using entrance - exit data (Co-supervised by Dr.A.M.R.G.Athapaththu)	E/14/147	J.A.T.N. Jayakody	Dr.IMS Satyaprasad
		E/14/099	P.R.D. Fernando	
19	Microscopic Traffic Simulation of the compound junction at Peradeniya using VISSIM for Optimum Junction Operation Strategy (Co-supervised by Dr.V.S.Wickremasinghe)	E/14/343	D.H.M.K.S Thalagaskotuwa	Dr.IMS Satyaprasad
		E/14/272	A.S.P. Ranasinghe	
20	Validation of an ADT estimation model using Origin - Destination data (Co-supervised by Dr.A.M.R.G.Athapaththu)	E/14/206	O.G.S. Madusanka	Dr.IMS Satyaprasad
		E/14/323	U.A.C. Sewwandi	
21	Improvement of an ADT estimation model developed for A-class roads in Sri Lanka by incorporating national expressways and important B-class links (Co-supervised by Dr.V.S.Wickremasinghe)	E/14/150	P.M. Jayarathna	Dr.IMS Satyaprasad
		E/14/187	R.D.M.D. Kumari	
22	Assessment of Pedestrian Facilities in Kandy World Heritage City from the perspective of Tourists	E/14/020	S.A. Arafan	Dr.VS Wickremasinghe
		E/14/395	M.D.C.I. Wijesinghe	
23	Tourists' Satisfaction Index on Traffic and Non-Traffic Functions in Kandy City	E/14/113	J.P.M.H. Gunathilaka	Dr.VS Wickremasinghe
		E/14/120	H.K.E.M. Handaraja	
24	Effect parking regulations in Sri Lanka - Case study in Kandy city limits	E/14/030	H.H.M.O.W.W. Bandara	Dr.AGHJ Edirisinghe
		E/14/179	N.K.G.D.S. Katuwawala	
25	Effect of road side parking for the smooth traffic flow on roads	E/14/135	P.M.G.D.M. Herath	Dr.AGHJ Edirisinghe
		E/14/137	P.M. Hewamallikage	
Material & Structural Engineering				
26	Finite Element Analysis of Unbonded Post-tensioned Rocking Precast Walls	E/14/025	A.K.B.J. Aththanagoda	Dr.HADS Buddhika
		E/14/217	N.S. Maliyawadu	
27	Wind load effects of Single Column Supported Billboard Structures using Computational Fluid Dynamics (CFD)	E/14/373	W.A.C. weerasinghe	Dr.HADS Buddhika
		E/14/295	B.C.S.S.W. Rodrigo	
28	Walking Induced Floor Vibration Design and Control	E/14/045	K. Branavan	Dr.HADS Buddhika
		E/14/265	K. Raakvian	

29	Numerical Modelling of Damaged Dapped-end RC Beams	E/14/005	A.H.M.S.A. Abeysinghe	Dr.HD Yapa
		E/14/290	R.M.G.E. Rathnayake	
30	Use of prestressed steel for Deep Embedded (DE) shear Retrofitting of RC beams	E/14/102	K. Gajanan	
		E/14/252	B. Prashangan	
31	Shear Retrofitting of RC Beams Using Prestressed Deep Embedded Reinforcement	E/14/042	M. Bhanugoban	Dr. J.A.S.C. Jayasinghe and Prof.K.A.S.Susantha
		E/14/041	W. Benaja	
32	Strength and Ductility Evaluation of Stiffened Steel Columns: Numerical Study	E/14/348	T. Thevega	Dr. J.A.S.C. Jayasinghe and Dr.C.S.Bandara
		E/14/268	K. Rajavijayan	
33	Development a Semi-Destructive Testing Technique Based on Hardness Test to Determine Mechanical Properties of Steel.	E/14/197	S.P.L. Madhumali	Dr. J.A.S.C. Jayasinghe and Dr.C.S.Bandara
		E/14/417	W.A.S.M. Withanarachchi	
34	Finite Element (FE) Modeling and Simulation of Solid Tire (Non-Pneumatic Tire - NPT) for Static and Dynamic Responses.	E/14/003	C.D. Abeygunasekara	Dr. J.A.S.C. Jayasinghe and National Finite Element Analysis and Simulation Center, Sri Lanka
		E/14/019	N.M.L.W. Arachchi	
35	Crack tip plastic behaviour of high carbon steels	E/14/170	P. Kalaban	Dr.C.S.Bandara
		E/14/411	J. Jeyakkamalan	
36	Cyclic failure investigation of steel in reinforced concrete beams	E/14/165	M. Jenothan	
		E/14/409	V. Yuvanhini	
37	Failure investigation of two storey buildings with load bearing masonry walls	E/14/304	M.A.C.J.P Samarasekara	Dr.A.J.Dhammika
		E/14/312	S.U. Sathya	
38	Experimental investigation and numerical simulation of the behaviour of steel-concrete composite girders	E/14/249	T.U. Pinnaduwege	Dr.A.J.Dhammika
		E/14/361	W.N.M. Walpola	
39	Experimental investigation on damping characteristics of post-tensioned concrete bridges	E/14/276	G.K. Ranaweera	
		E/14/175	W.A.C. Karunaratne	
40	Performance evaluation of concrete filled steel tubes (CFST) under different loading condition and geometric configurations	E/14/151	M.P.L. Jayarathne	Dr.KRB Herath
		E/14/103	K.G.M.K.K. Gayanayake	
41	3D printing of carbon nano structures	E/14/033	H.M.I.U. Bandara	Dr.KRB Herath
		E/14/116	D.P.T.C.J. Gunawardana	
42	Effects of twist and diagrid angles in diagrid high-rise buildings	E/14/087	D.P.S.T. Diyalagoda	
		E/14/386	T.D.A.L. Wickramasinghe	Dr.K.K.Wijesundara
43	Force-based finite element formulation with three-dimensional axial force-bending moment interaction of reinforced concrete frame and wall elements.	E/14/191	M.D.Y.N. Lamawansa	
		E/14/342	T.M.S. Thennakoon	
44	Comparison of constitutive models for nonlinear cyclic response of cracked reinforced concrete	E/14/183	K. Kopitha	
		E/14/294	M.R.M. Rifnaz	Dr.K.K.Wijesundara
45	Second order effects (P- Delta) on wind-induced structural behavior of high-rise concrete wall buildings.	E/14/163	K.S. Jayaweera	
		E/14/275	R.A.C.D. Ranathunge	
Construction Engineering & Management				
46	Impact of Variation Orders on Construction Project Performance	E/14/078	S. Dilojan	Dr.PBG Dissanayake
		E/14/251	S. Piranavan	
47	Shortage of Skilled Labour and Impact of Imported Labour in the Construction Industry of Sri Lanka	E/14/263	S.N. Punchihewa	
		E/14/370	R.P. Weerasekara	
48	Time, Cost, Quality and Risk Trade-off in construction projects scheduling	E/14/250	K. Piranavan	Mr.S.M.Dissanayake
		E/14/149	N. Jayanthira	
49	The Effect of Main Contractor and Sub-Contractor Relationship on Project Outcomes	E/14/331	H.M.Y.S. Samarasekara	Mr.S.M.Dissanayake
		E/14/372	R.P.M. Weerasena	
50	Challenges Faced by the Pre-Cast Concrete Industry in Sri Lanka	E/14/212	M.P.I.S. Mahadewa	Mr.S.M.Dissanayake
		E/14/307	P.A.C. Sandakelum	
Water & Hydraulic Engineering				
51	Coastal flooding due to sea surges	E/14/324	W.M. Shanuka	Prof.J.J. Wijethunge
		E/14/063	R.M.L.A Dassanayake	
52	Effect of waves generated by high winds on coastal water levels	E/14/059	D.A.R. Daranagama	Dr.H.K. Nandalal
		E/14/008	A.G.S.N. Adikari	
53	Use of geospatial information system based tool for rehabilitation of water distribution systems	E/14/235	U.M.P. Pathirana	Dr.H.K. Nandalal
		E/14/241	P.D.P.O. Peramuna	
54	Development of systems for detection, early warning, and control of pipeline leakage	E/14/167	H.A.N.S. Kadurugamuwa	Mr.D.D.Dias
		E/14/081	D.W.A.S. Dilthara	
55	Study on cracked concrete dams in Sri Lanka	E/14/321	P.M.D. Senevirathna	Mr.D.D.Dias
		E/14/106	W.V.D.N. Gayendra	
56	Impact of sediment transport for the durability of the hydraulic structures	E/14/070	W.A.U. De Silva	Mr.D.D.Dias
		E/14/013	H.D.N. Akalanka	
57	Impact of Tsunami generated object on coastal structures	E/14/026	L.K. Attanayake	Dr.D.Karunasinghe
		E/14/029	G.G.C.J. Bandara	
58	Statistical downscaling of rainfall for hydrological applications	E/14/267	R.A.C.S. Rajapaksha	Dr.D.Karunasinghe
		E/14/109	S.N.W. Gunarathna	
59	Gap filling methods for univariate rainfall, river flow time series.	E/14/014	A.M.W.L. Amarathunga	Dr.D.Karunasinghe
		E/14/016	V.S. Anandagoda	
60	Modelling of fishways	E/14/140	H.M.P.M. Hitihamu	Prof.S.B.Weerakoon
		E/14/236	D.M. Pananwala	
61	Two-dimensional modelling of flow in shallow reservoir for sediment	E/14/286	K.R.M.C.B. Rathnasiri	Prof.S.B.Weerakoon
		E/14/365	W.M.D.M. Wasala	
62	Discharge observations assimilation to improve flood prediction skills	E/14/082	K.H.S. Dinelka	Dr.P.Neluwala
		E/14/039	W.H.M.Y.D. Bandara	
63	Applicability of global flood routing schemes on small-scale river basins.	E/14/123	A.M. Haseem	Dr.P.Neluwala
		E/14/357	S. Vibishanth	

Environmental Engineering				
64	Development of an adsorbent material for removing inorganic contaminants from water.	E/14/297	N.K.L.C. Rupasinghe	Dr.KGN Nanayakkara
		E/14/316	S.M.A.E. Senanayake	
65	Development of an adsorbent material for removing natural organic materials from water.	E/14/127	H.K. T. M. Herath	
		E/14/223	M.K.D.D.S. Meegoda	
66	Electrochemical method for removing natural organic materials from water.	E/14/168	P.V. Kahawearachchi	
		E/14/180	B.U. Kaushalya	
67	Effect of windblown particles on roof runoff quality	E/14/359	W.A.N.R. Vithakshana	Dr.C.Gunawardena
68	Industrial wastewater treatment	E/14/303	W.K. Sandaruwan	
		E/14/393	W.S.M.S.K. Wijerathna	
		E/14/118	W.A.G.T.N. gunawardhana	
69	Treatment of high turbidity surface water	E/14/319	H.M.B.M. Senavirathna	
		E/14/330	G.A.H. Somarathne	
70	Performance evaluation of VSSF constructed wetlands for wastewater treatment	E/14/186	K.D.A.N. Kumarage	Ms. P.Weerakoon
		E/14/225	M.A.I.A. Moragoda	
71	Performance evaluation of HSSF constructed wetlands for wastewater treatment	E/14/269	V. Rajkumar	
		E/14/300	T. Sainadaraj	
72	Use of plastic waste in road construction	E/14/218	M.A.M.O. Manchanayake	Dr.L.Ratnayake
		E/14/234	K.P. Niroshani	
73	Construction and Demolition waste management in Sri Lanka	E/14/209	R.M.L. Madushantha	
		E/14/119	W.A.P.C.P. Gunawardhana	
74	Removal of Fluoride in drinking water using locally available materials	E/14/257	Y.M.N. Prasad	
		E/14/405	D.T.N. Yapa	
75	Water Quality Study on Urban Lakes	E/14/354	T. Thivahorun	Dr.S.Jinadasa
		E/14/344	T. Thanikuruban	
76	Municipal Soild Waste Leachate treatment	E/13/168	N.P.R.P.Jayawardhana	
		E/13/365	A.Supun Tharindu	